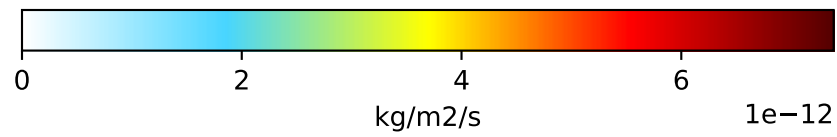
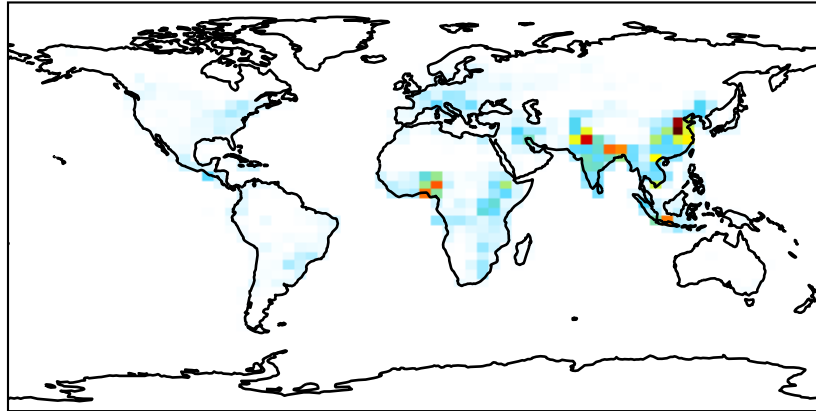
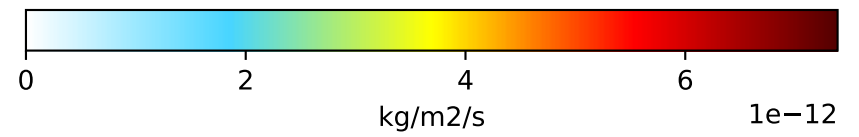
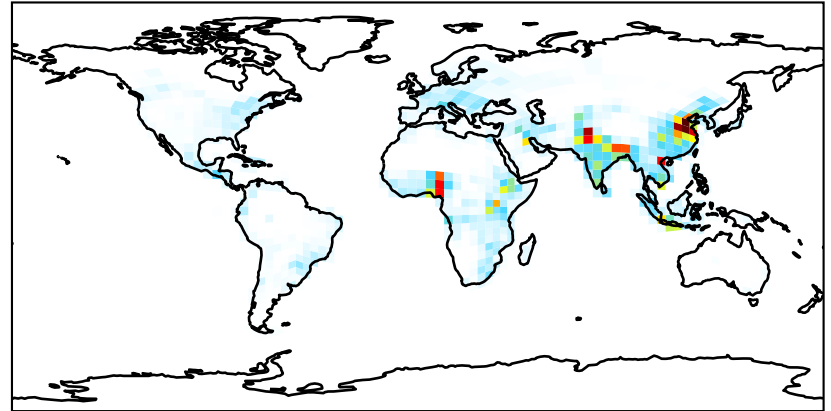


# EmisALD2\_Anthro (Jan2019)

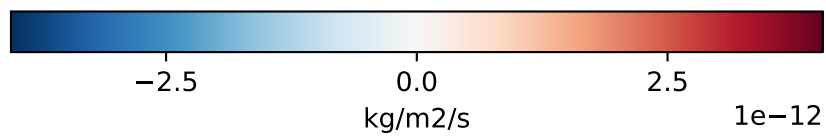
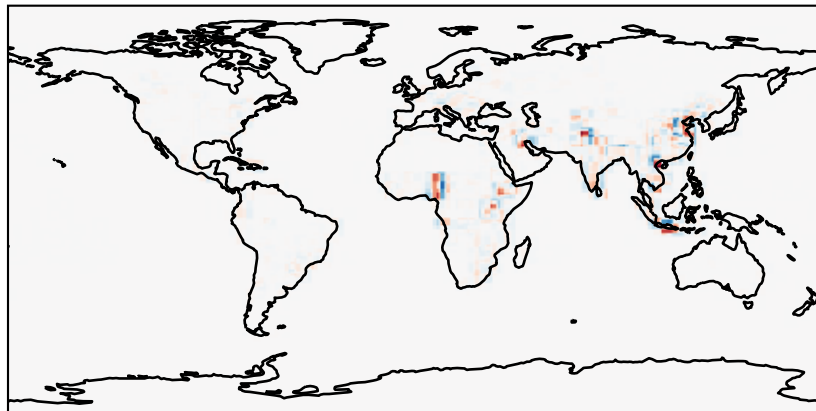
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



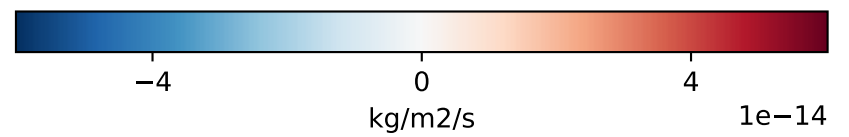
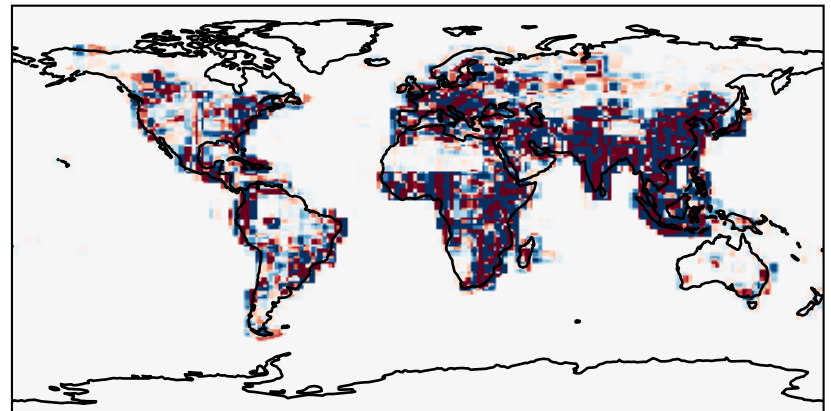
GCHP\_14.0.0-rc.3 (Dev)  
c24



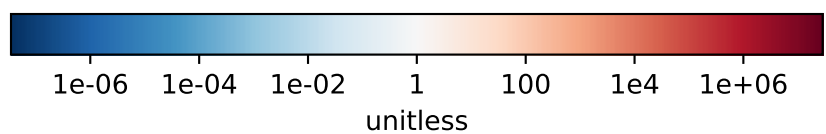
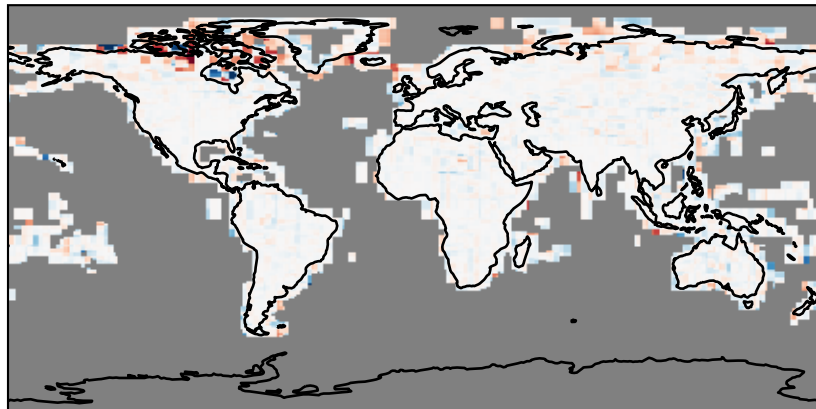
Difference (1x1.25)  
Dev - Ref, Dynamic Range



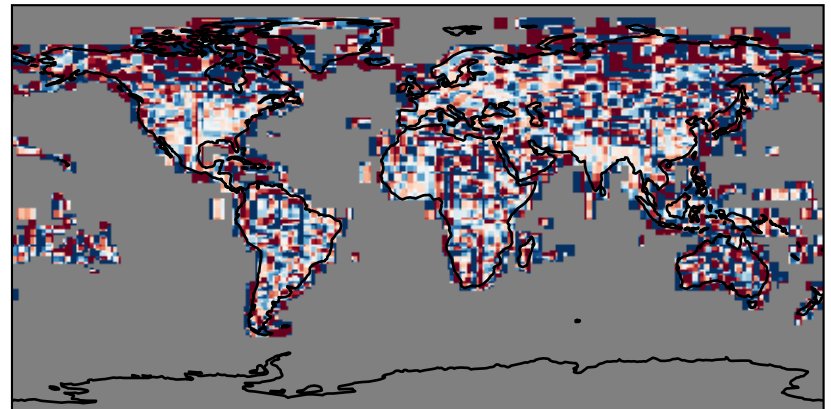
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

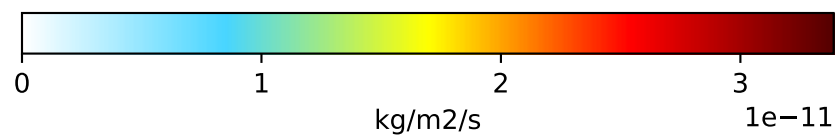
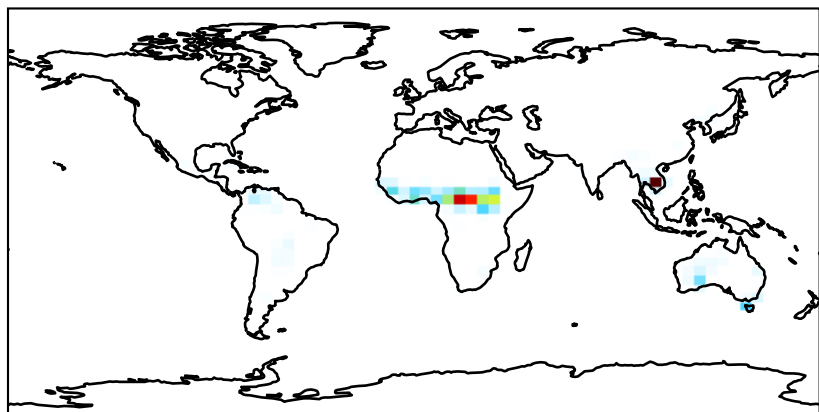


Ratio (1x1.25)  
Dev/Ref, Fixed Range

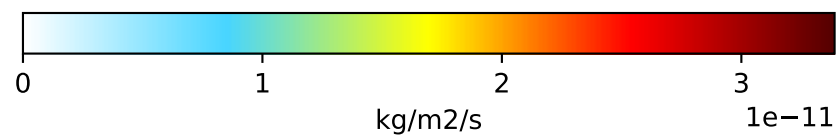
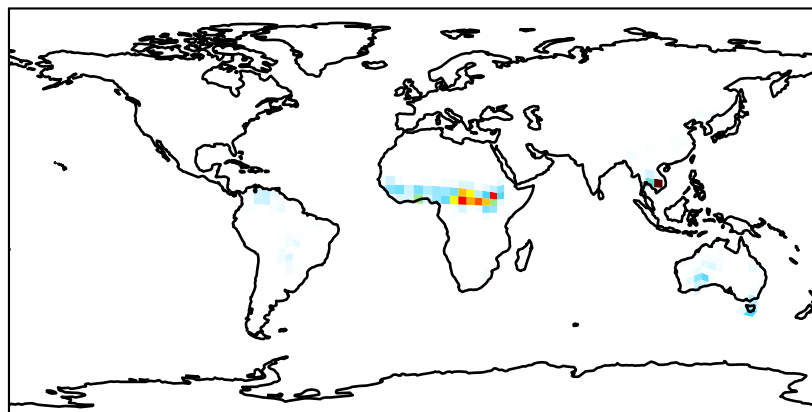


# EmisALD2\_BioBurn (Jan2019)

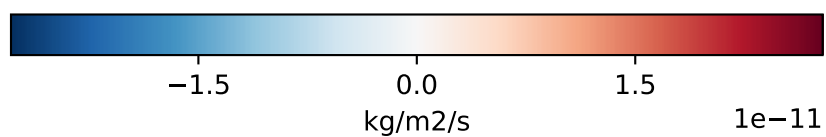
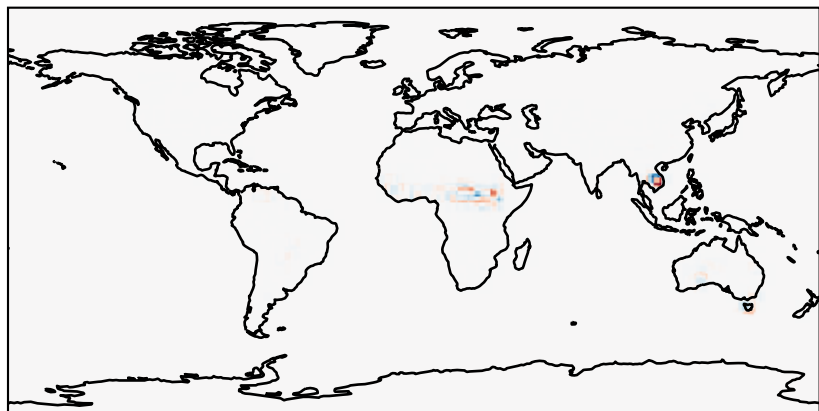
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



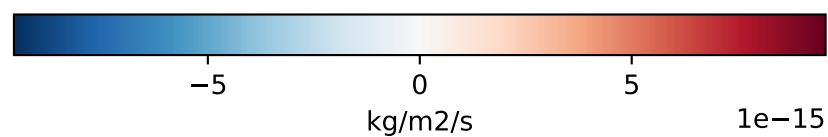
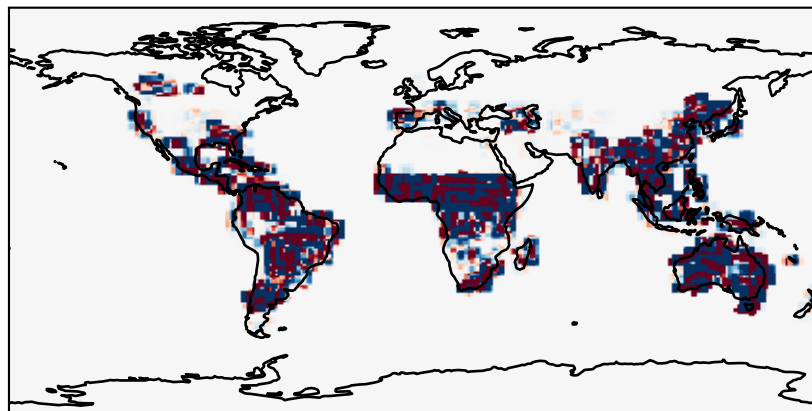
GCHP\_14.0.0-rc.3 (Dev)  
c24



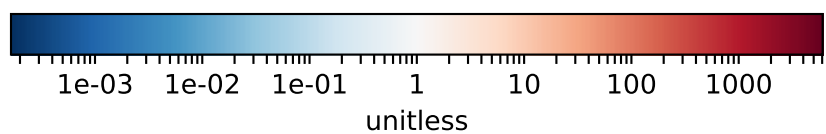
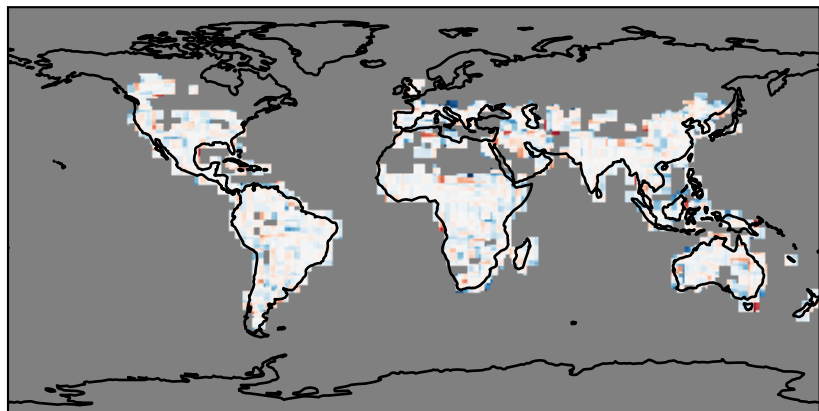
Difference (1x1.25)  
Dev - Ref, Dynamic Range



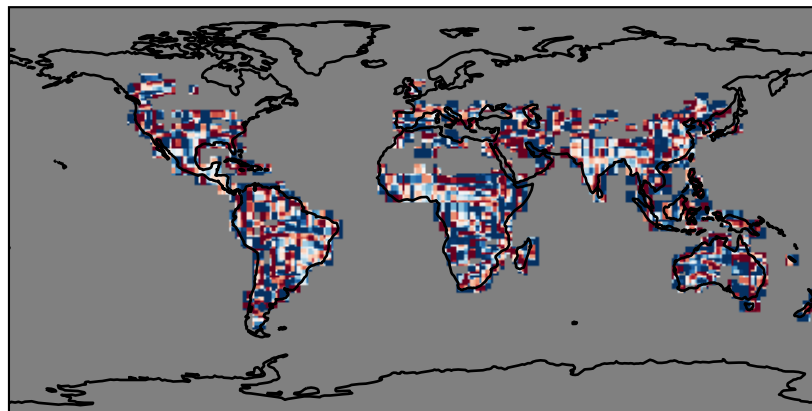
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

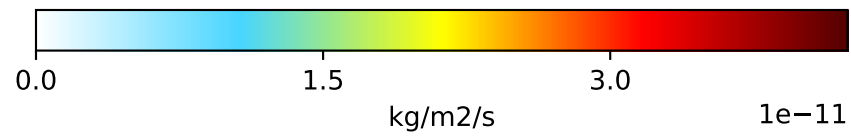
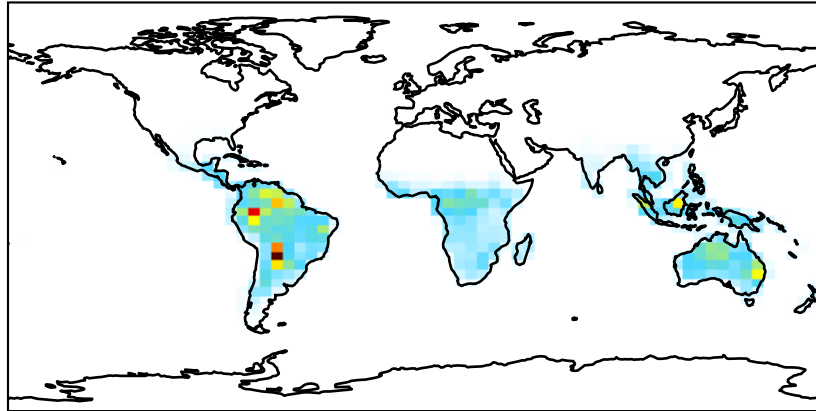


Ratio (1x1.25)  
Dev/Ref, Fixed Range

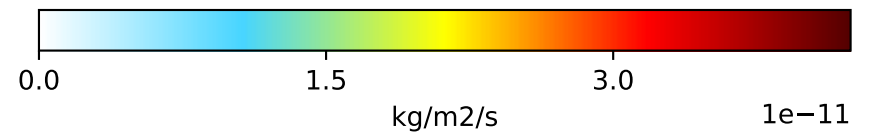
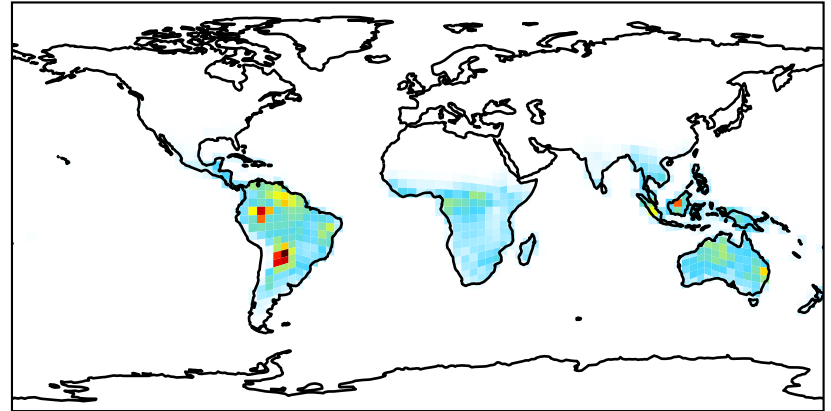


# EmisALD2\_Biogenic (Jan2019)

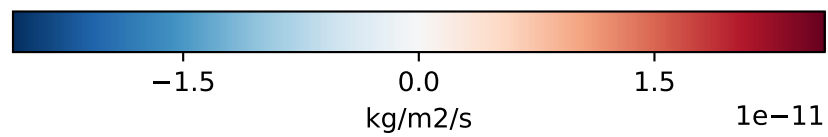
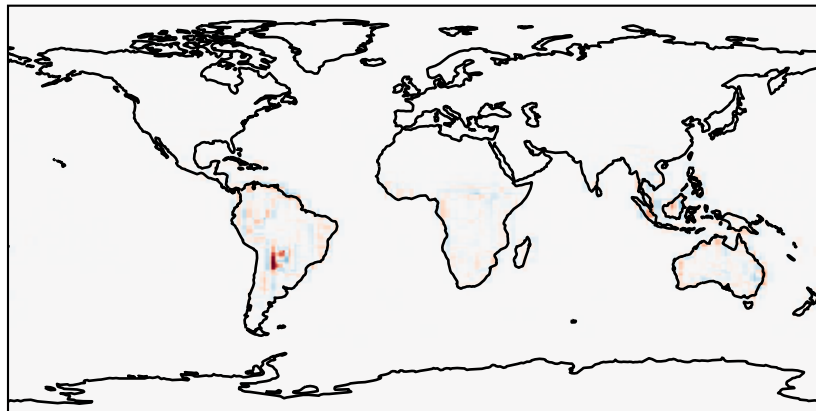
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



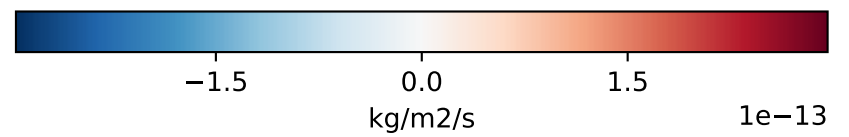
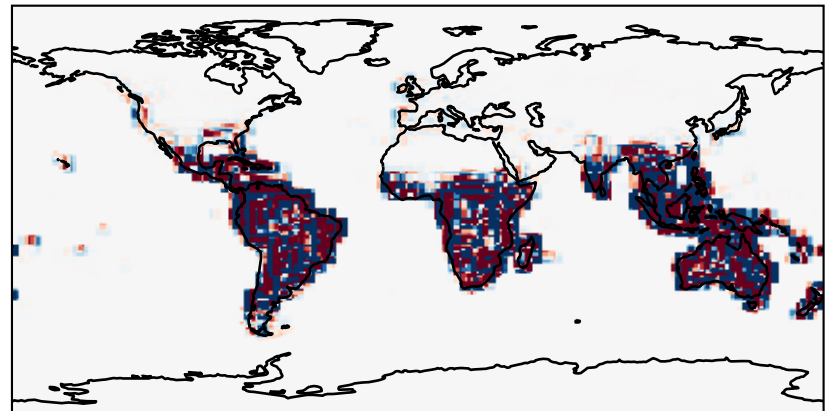
GCHP\_14.0.0-rc.3 (Dev)  
c24



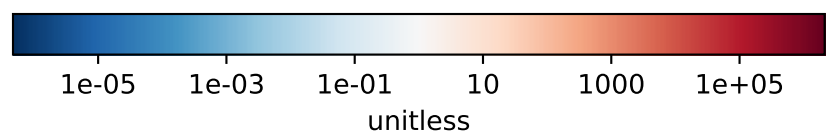
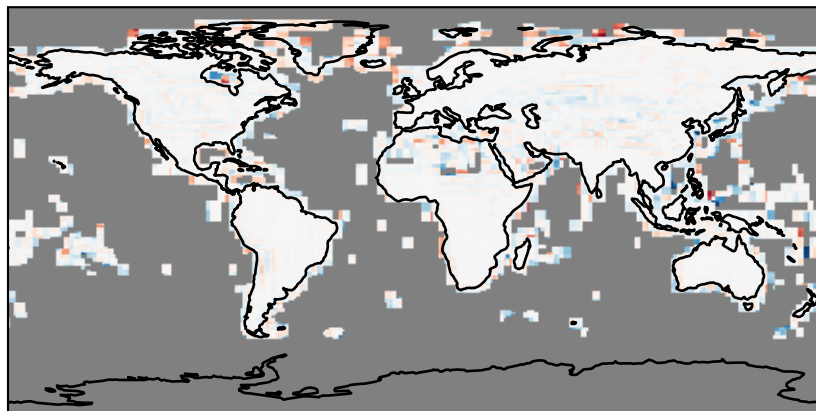
Difference (1x1.25)  
Dev - Ref, Dynamic Range



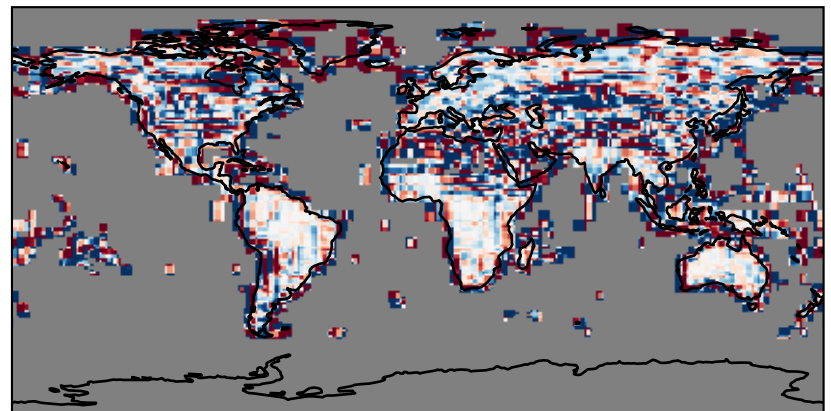
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

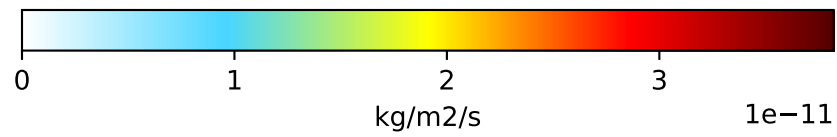
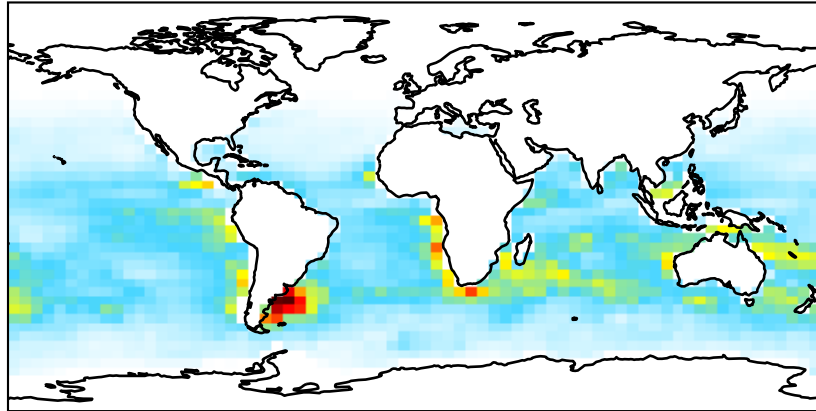


Ratio (1x1.25)  
Dev/Ref, Fixed Range

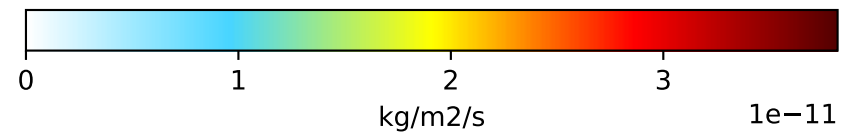
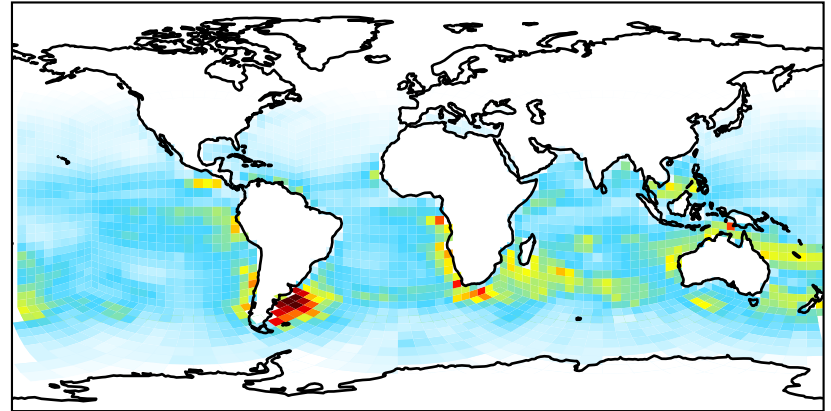


# EmisALD2\_Ocean (Jan2019)

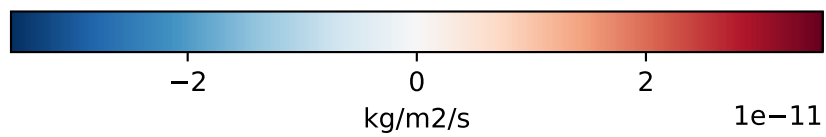
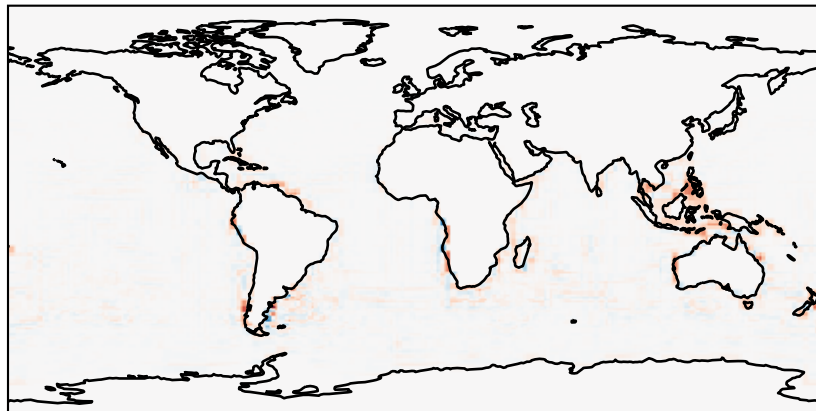
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



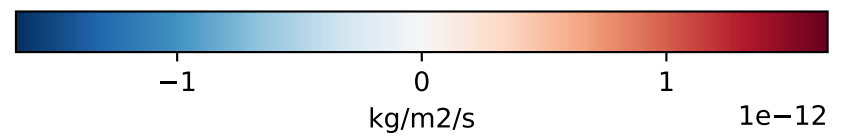
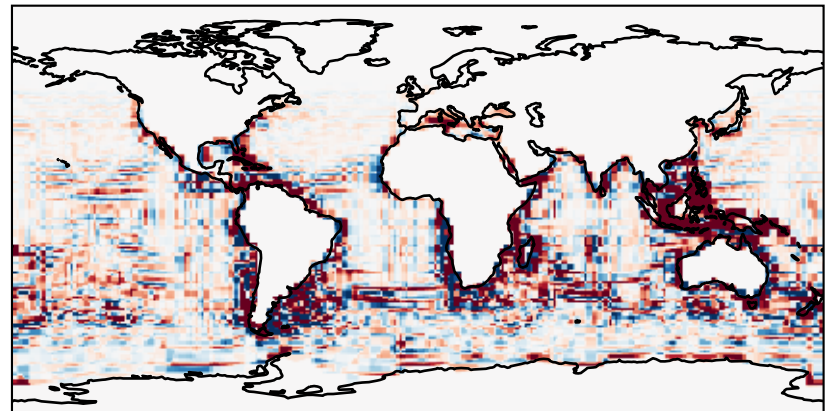
GCHP\_14.0.0-rc.3 (Dev)  
c24



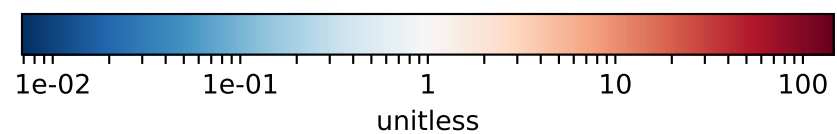
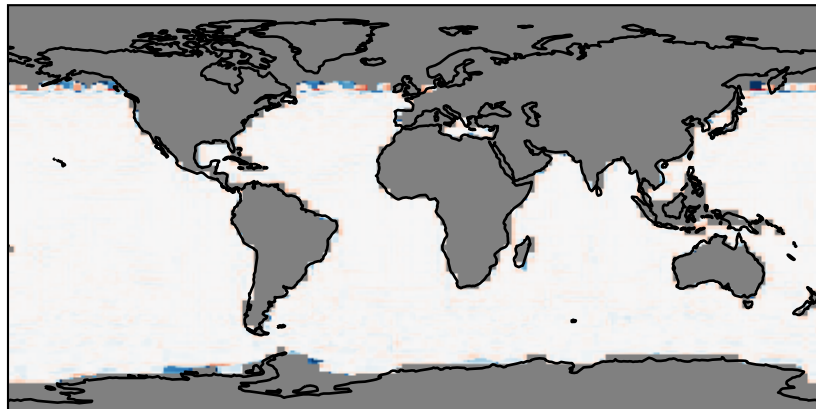
Difference (1x1.25)  
Dev - Ref, Dynamic Range



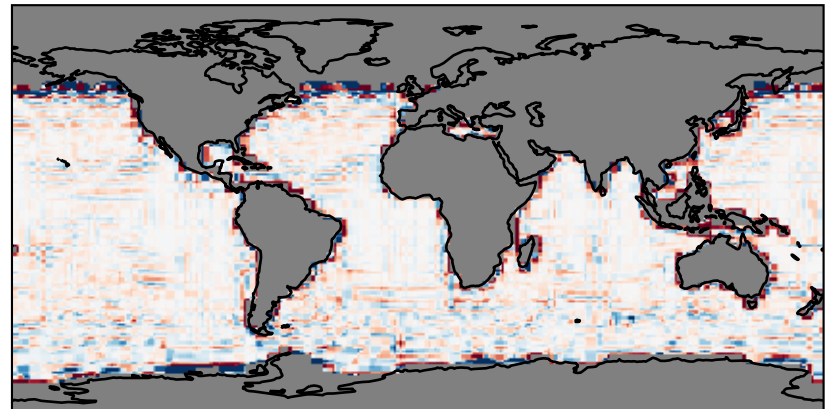
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

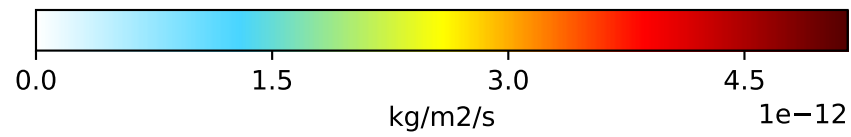
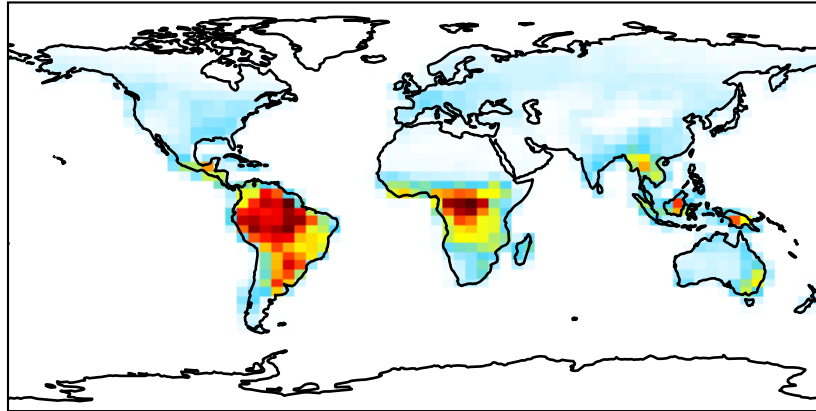


Ratio (1x1.25)  
Dev/Ref, Fixed Range

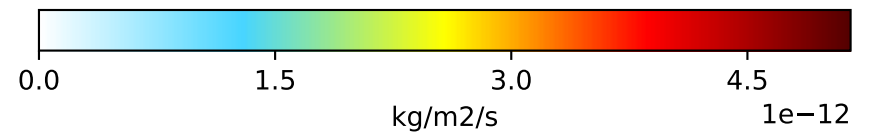
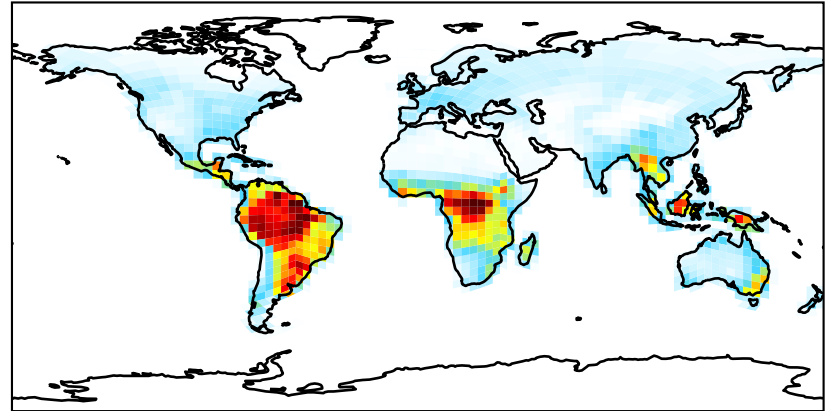


# EmisALD2\_PlantDecay (Jan2019)

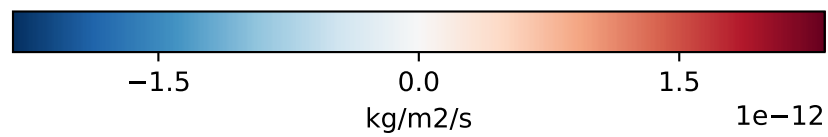
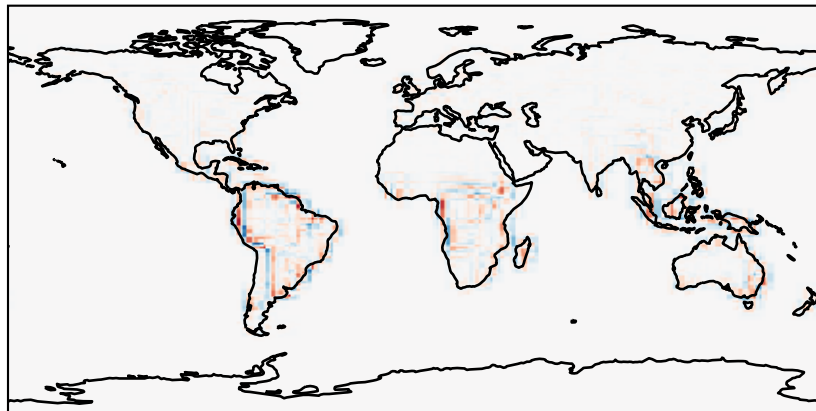
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



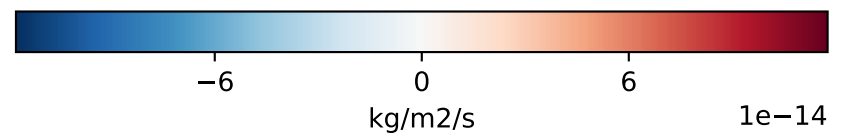
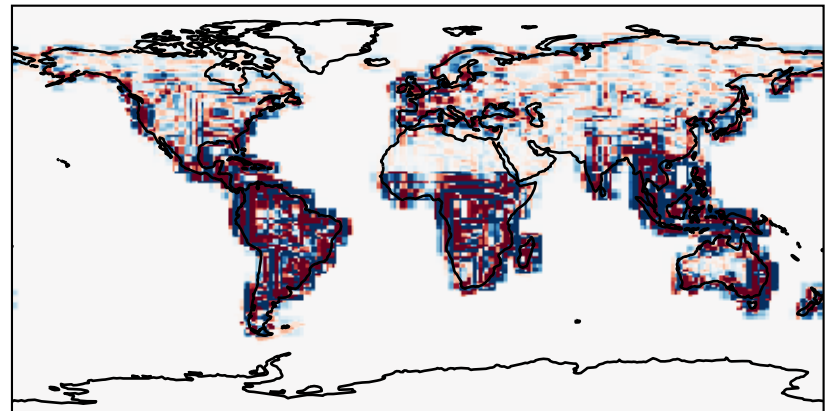
GCHP\_14.0.0-rc.3 (Dev)  
c24



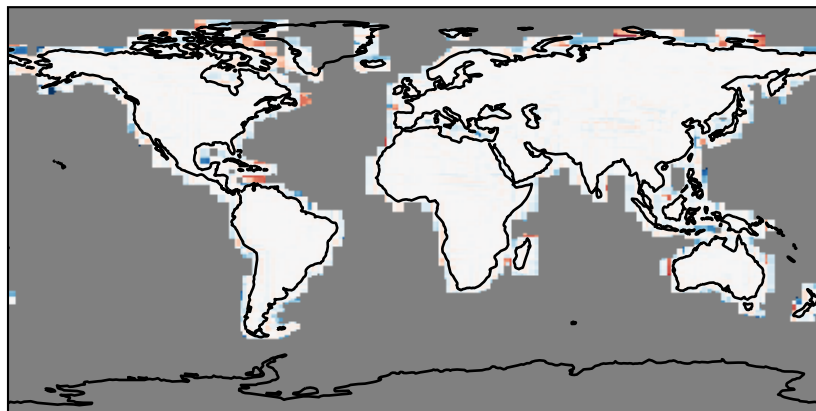
Difference (1x1.25)  
Dev - Ref, Dynamic Range



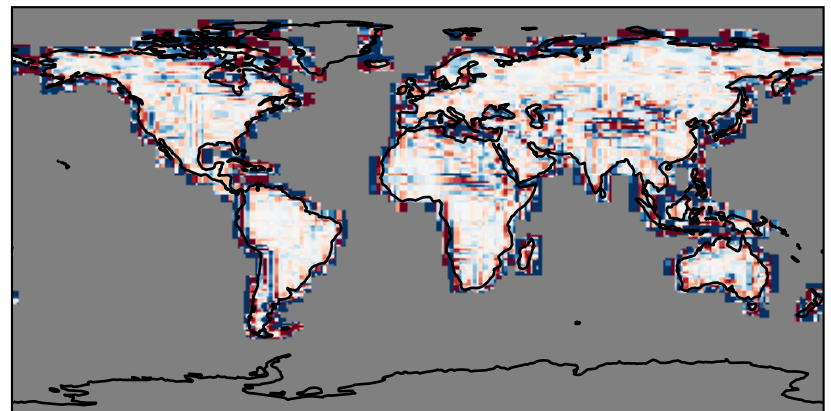
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

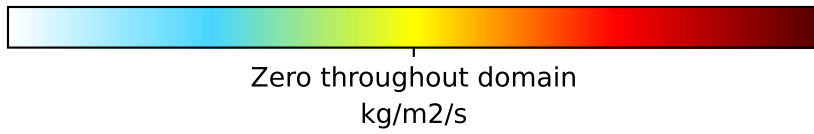
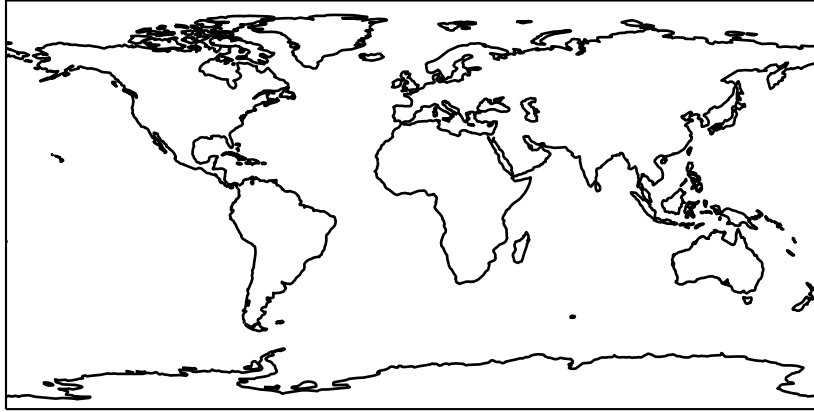


Ratio (1x1.25)  
Dev/Ref, Fixed Range

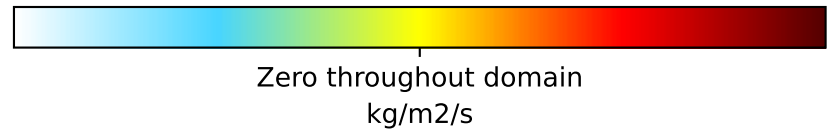
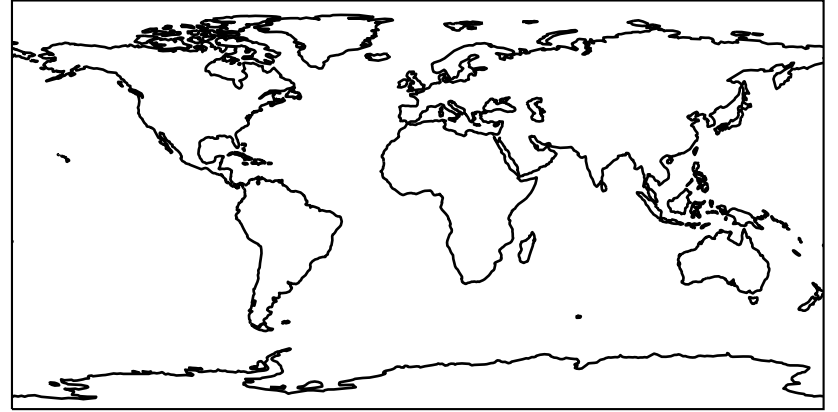


# EmisALD2\_Ship (Jan2019)

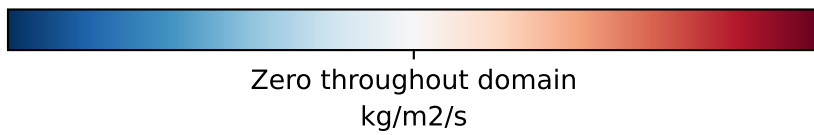
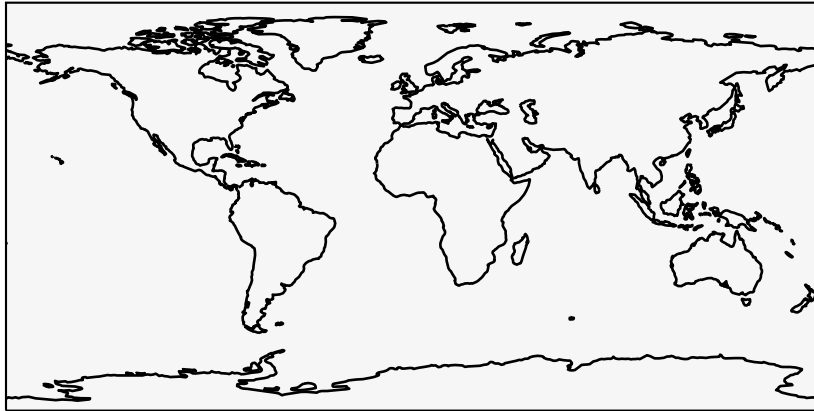
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



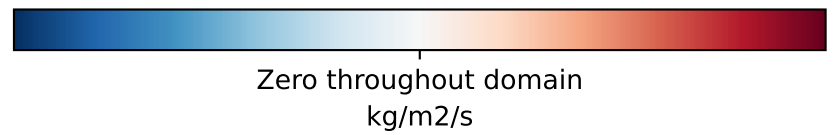
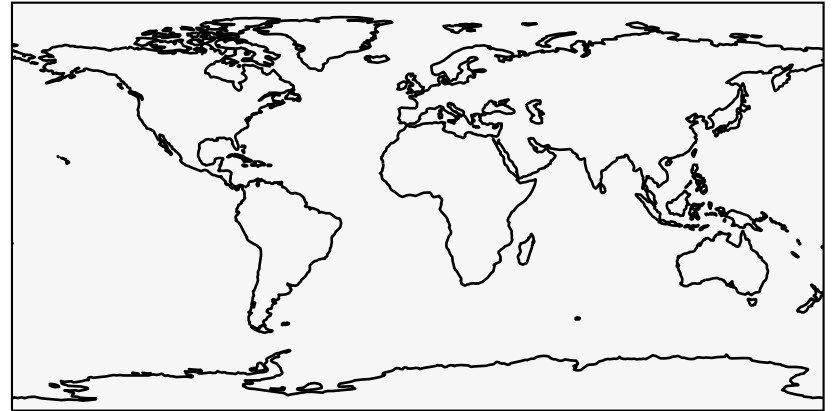
GCHP\_14.0.0-rc.3 (Dev)  
c24



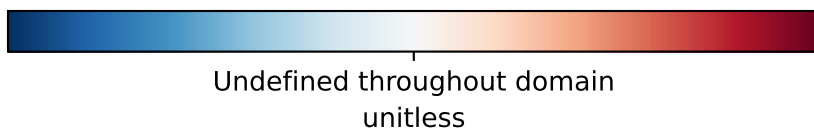
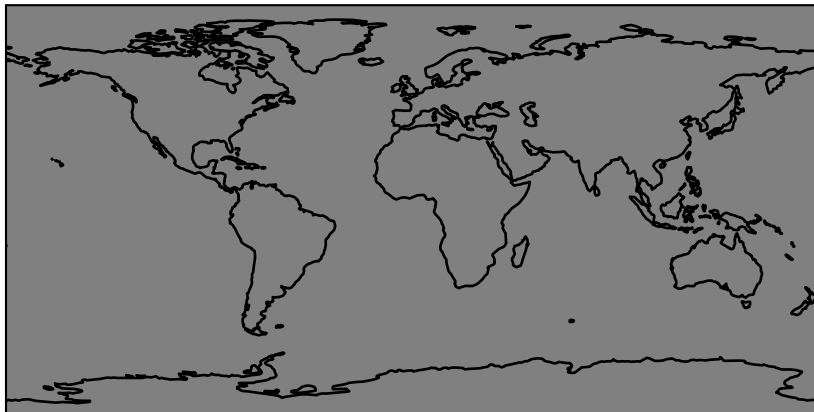
Difference (1x1.25)  
Dev - Ref, Dynamic Range



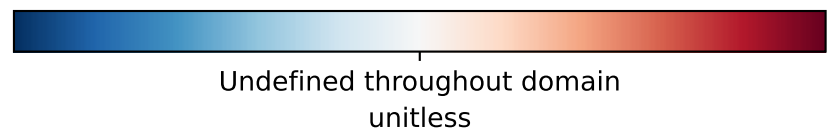
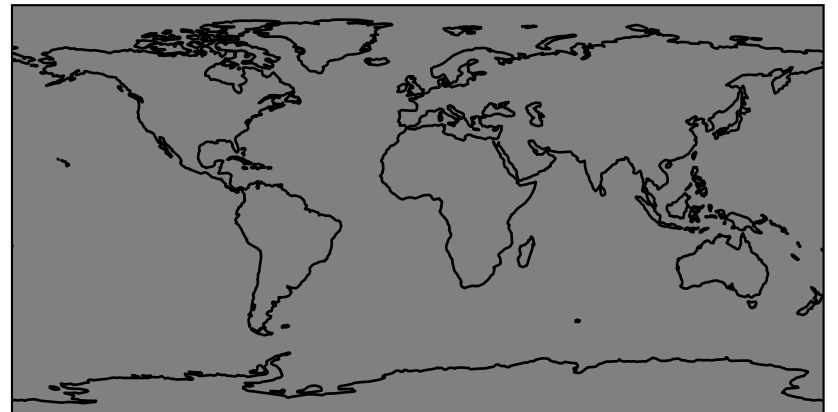
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

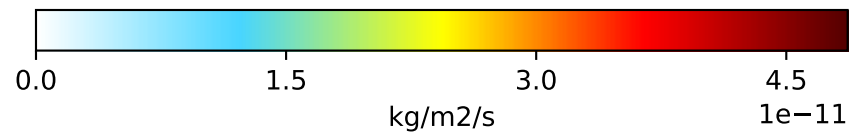
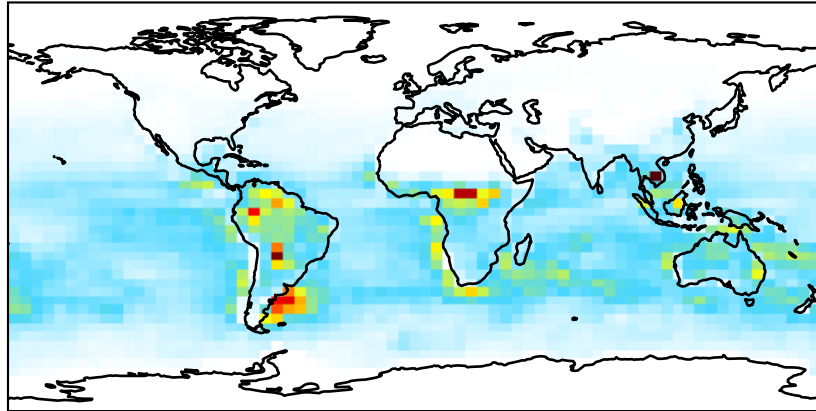


Ratio (1x1.25)  
Dev/Ref, Fixed Range

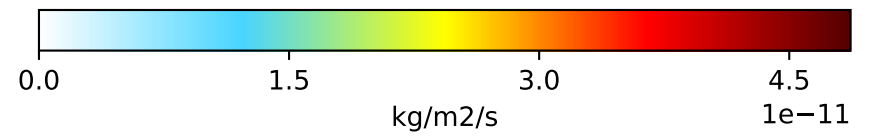
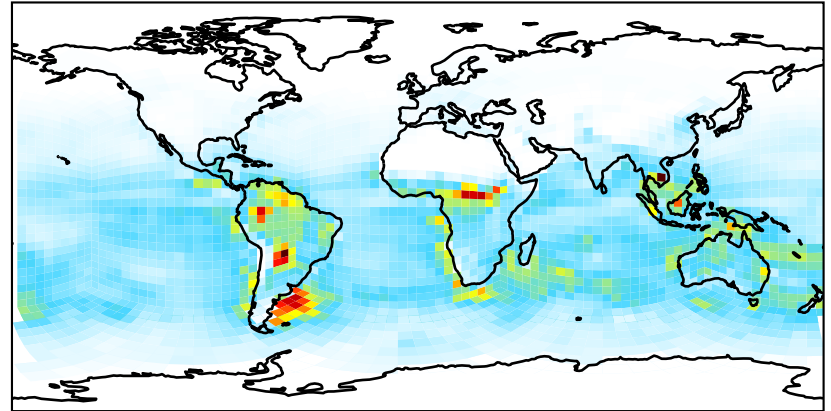


# EmisALD2\_Total (Jan2019)

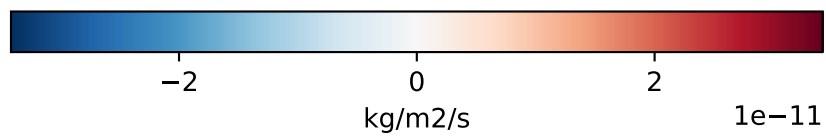
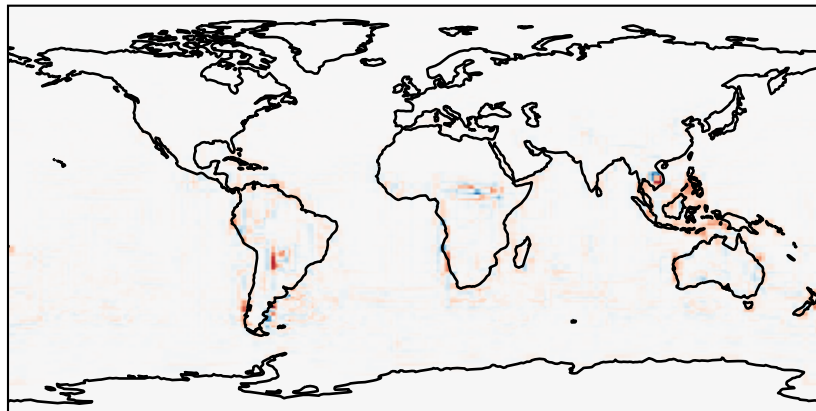
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



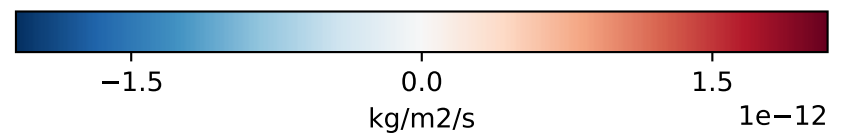
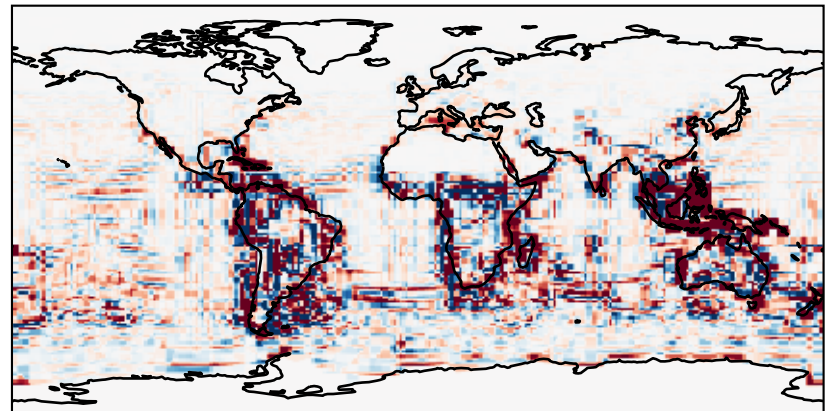
GCHP\_14.0.0-rc.3 (Dev)  
c24



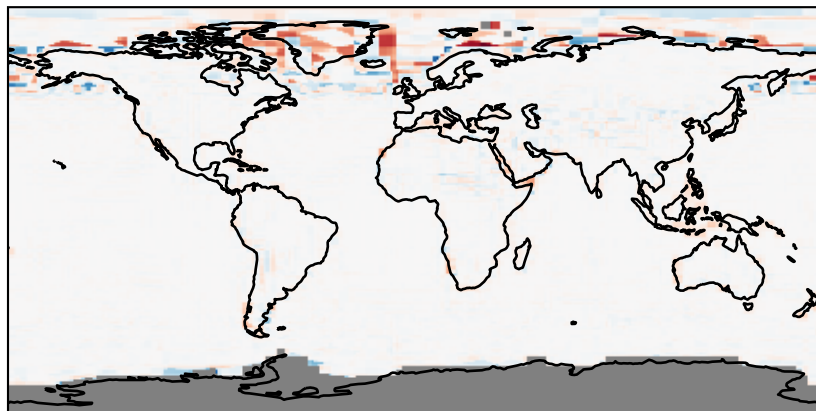
Difference (1x1.25)  
Dev - Ref, Dynamic Range



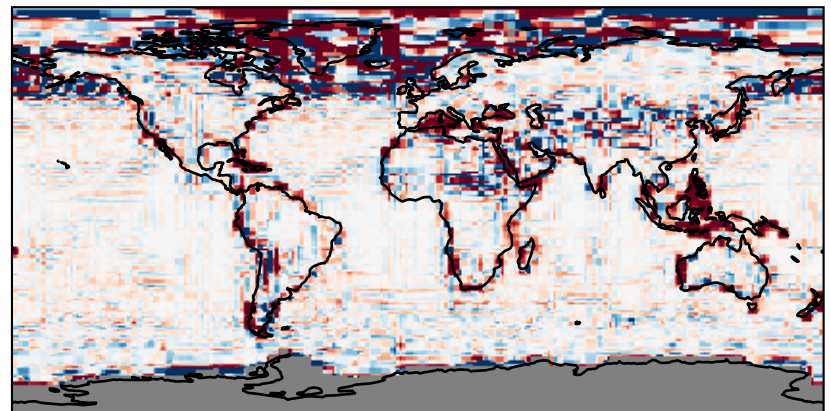
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

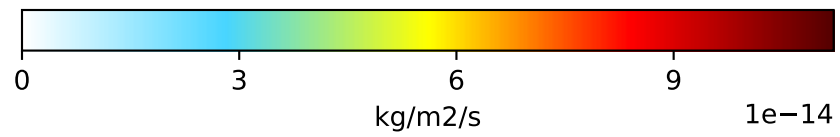
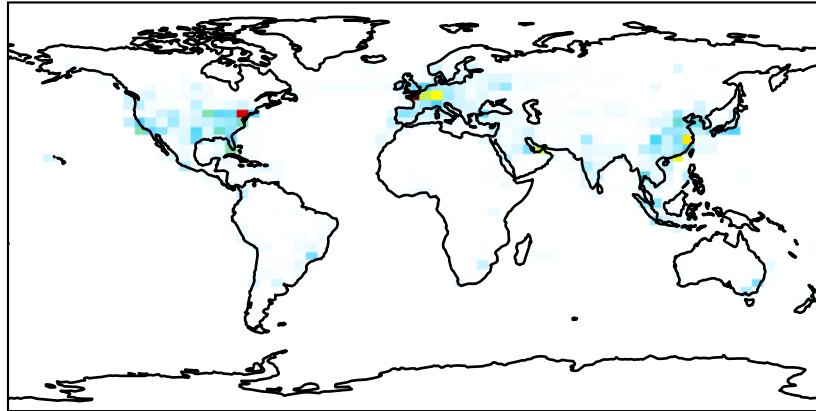


Ratio (1x1.25)  
Dev/Ref, Fixed Range

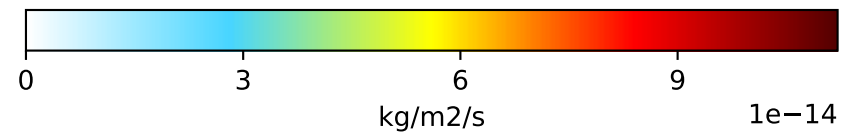
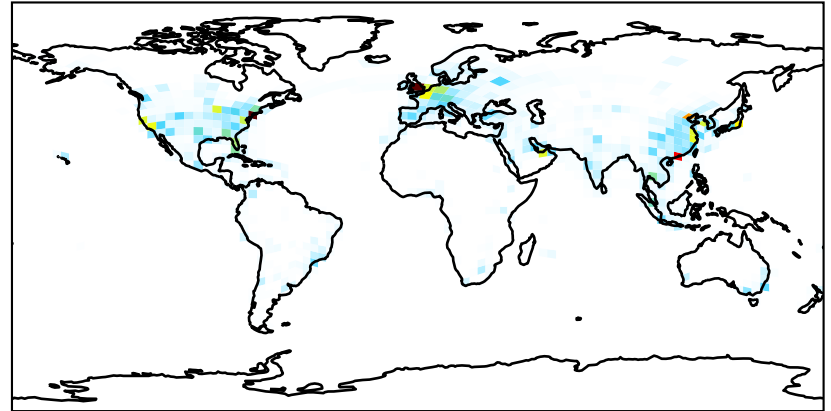


# EmisCH2O\_Aircraft (Jan2019)

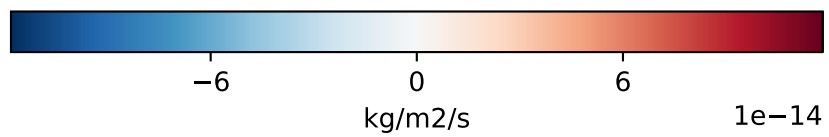
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



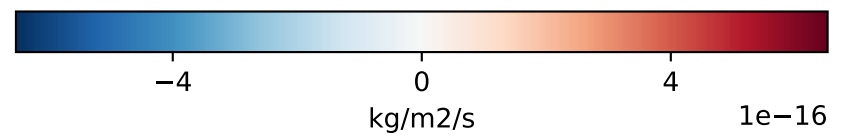
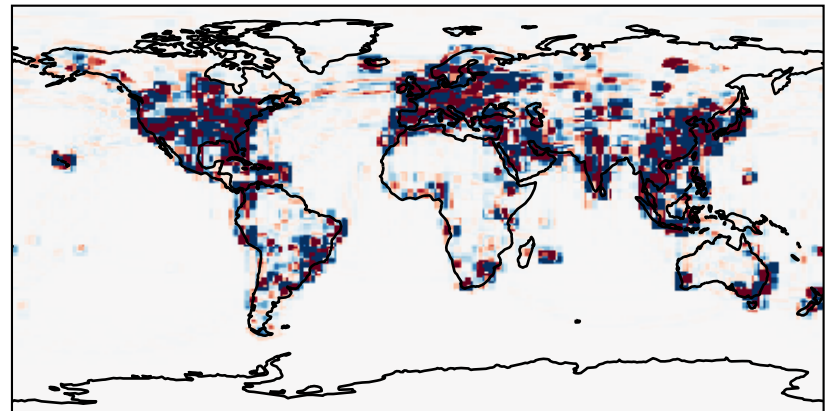
GCHP\_14.0.0-rc.3 (Dev)  
c24



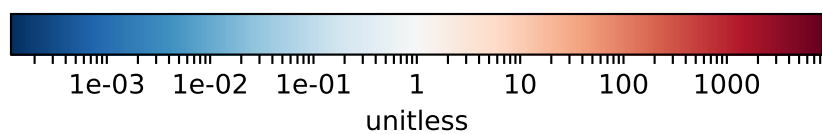
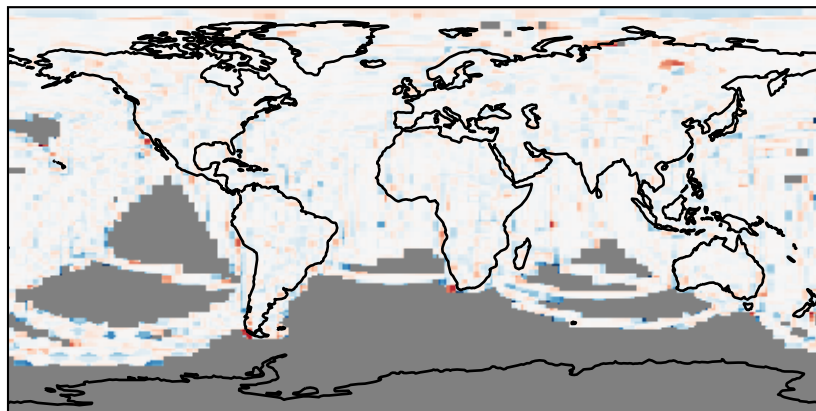
Difference (1x1.25)  
Dev - Ref, Dynamic Range



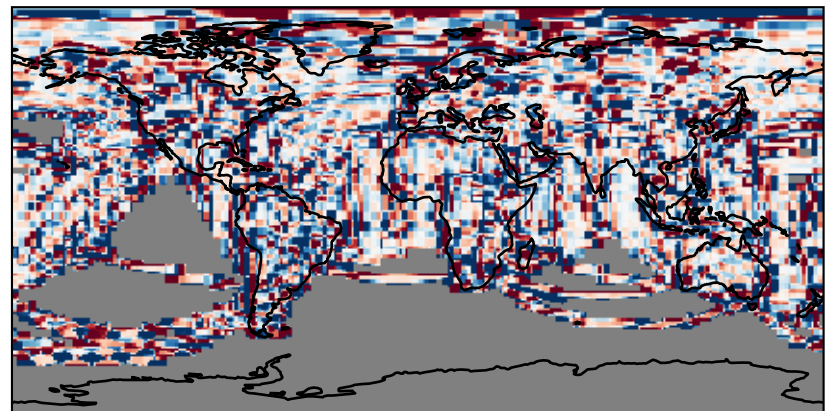
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



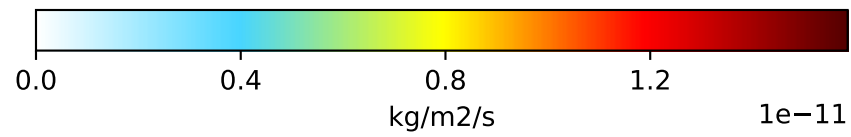
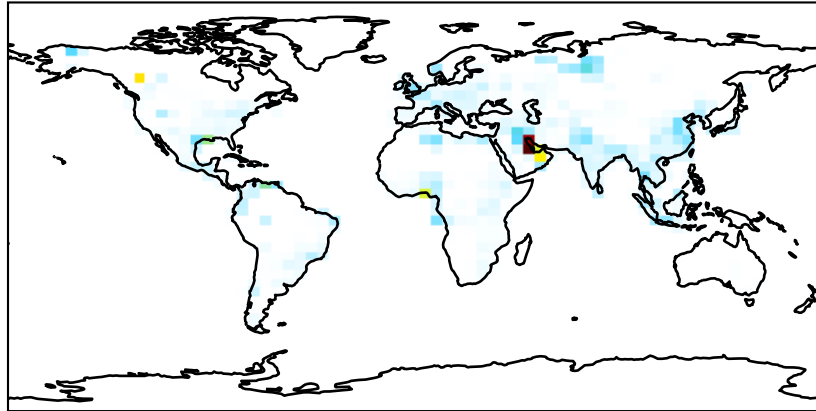
Ratio (1x1.25)  
Dev/Ref, Fixed Range



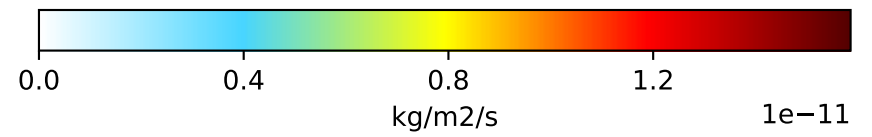
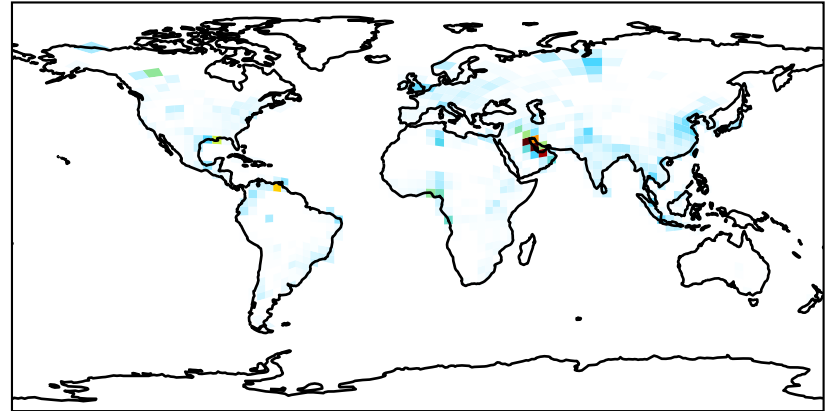


# EmisCH2O\_Anthro (Jan2019)

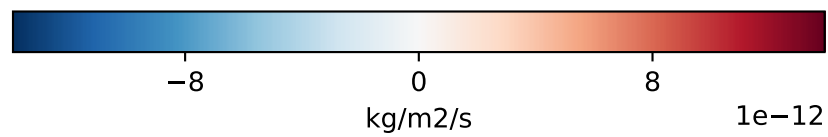
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



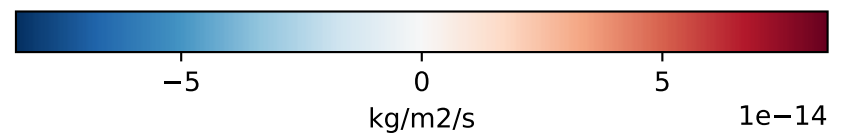
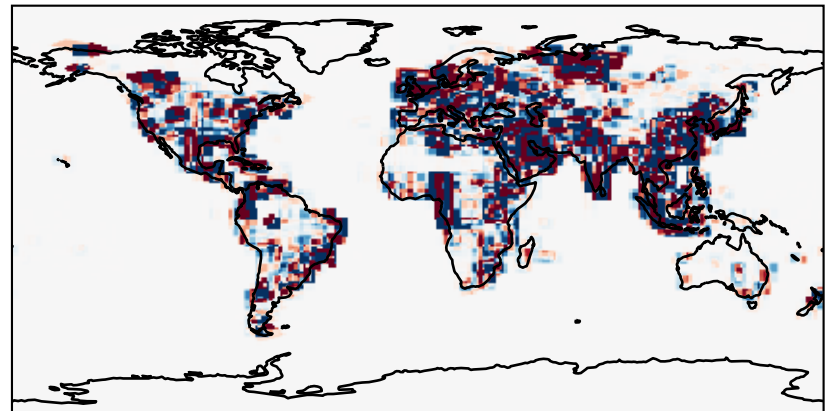
GCHP\_14.0.0-rc.3 (Dev)  
c24



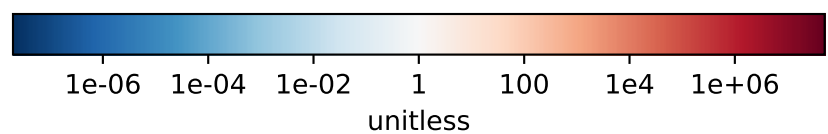
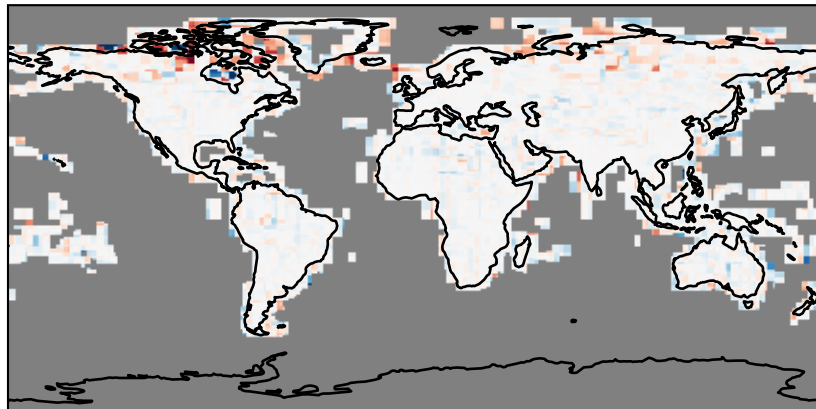
Difference (1x1.25)  
Dev - Ref, Dynamic Range



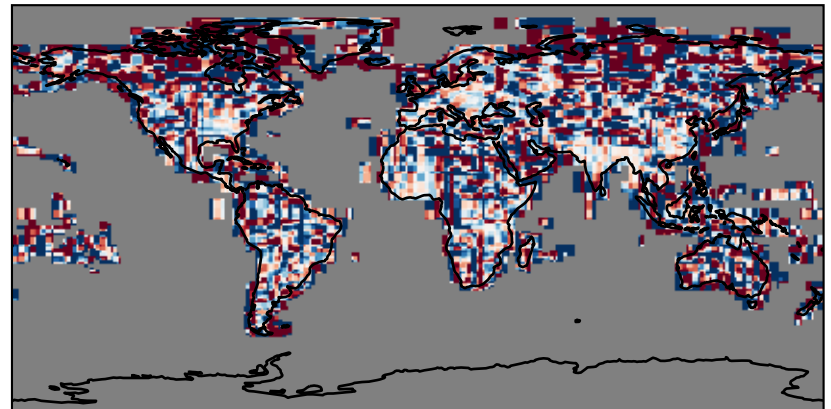
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

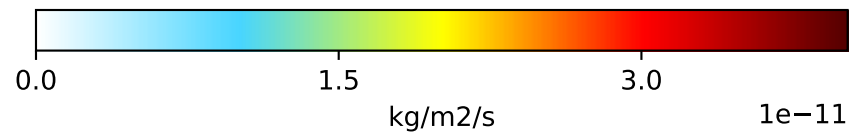
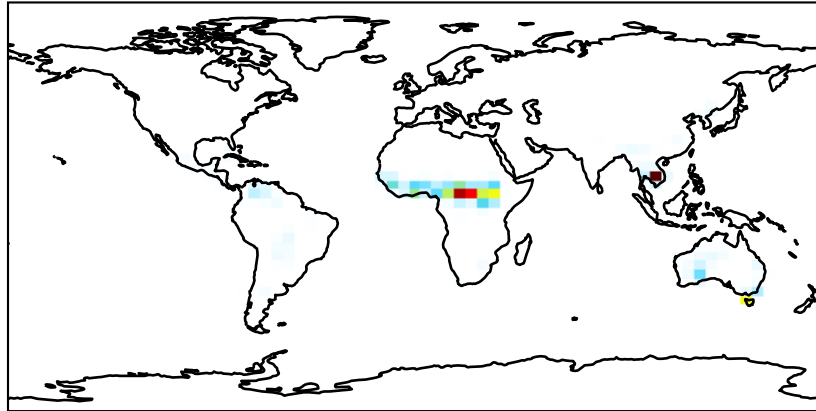


Ratio (1x1.25)  
Dev/Ref, Fixed Range

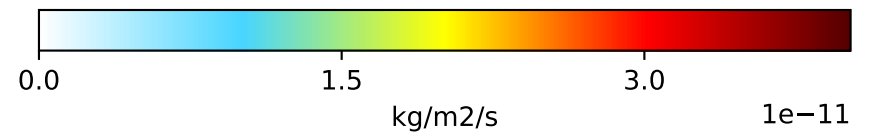
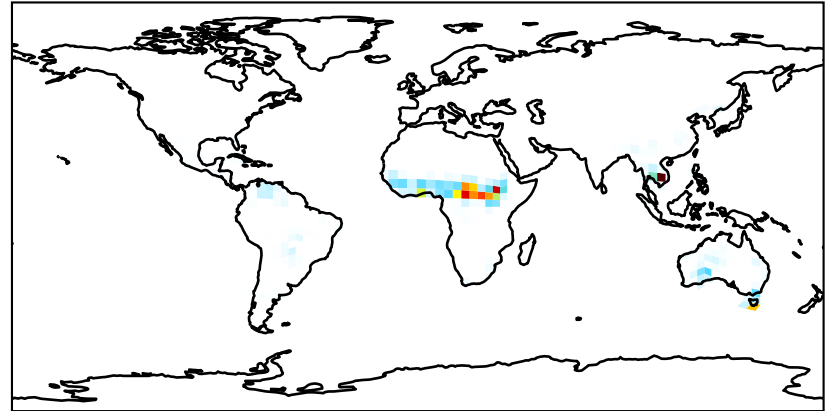


# EmisCH2O\_BioBurn (Jan2019)

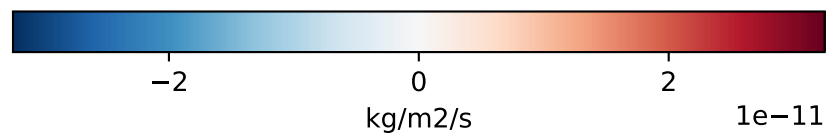
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



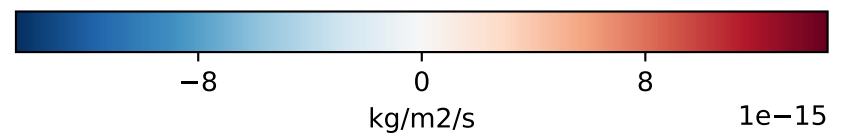
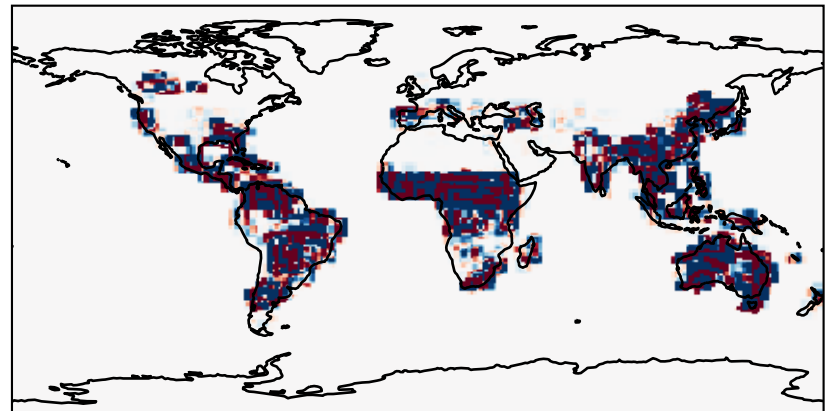
GCHP\_14.0.0-rc.3 (Dev)  
c24



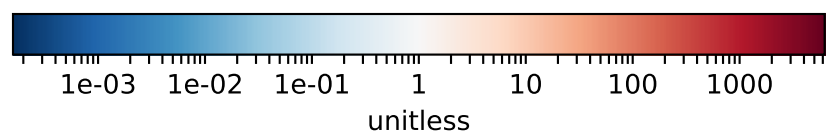
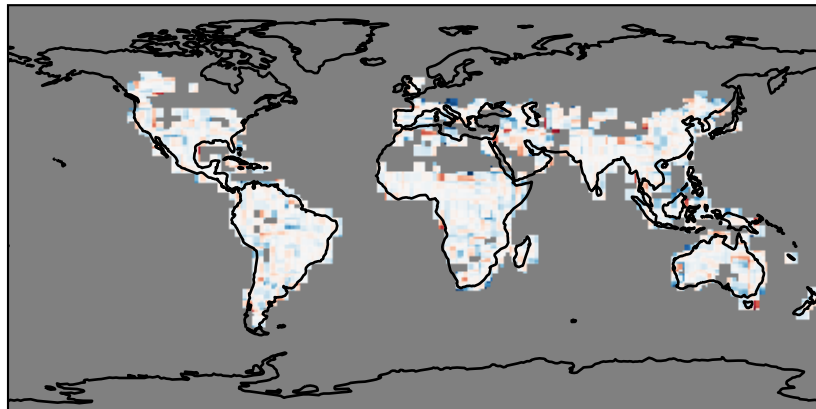
Difference (1x1.25)  
Dev - Ref, Dynamic Range



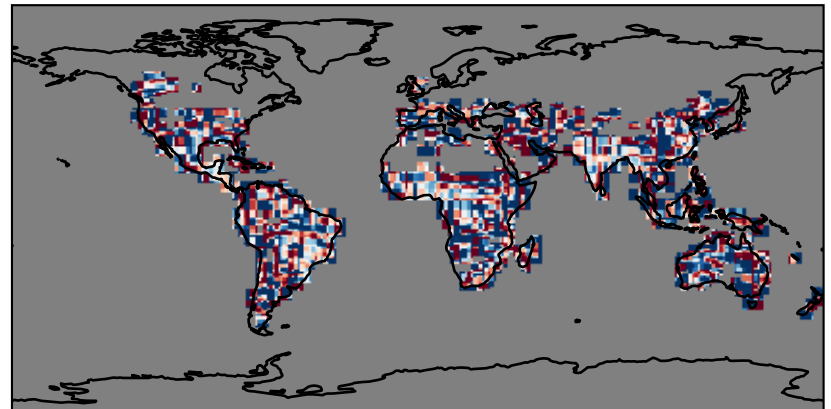
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ratio (1x1.25)  
Dev/Ref, Fixed Range



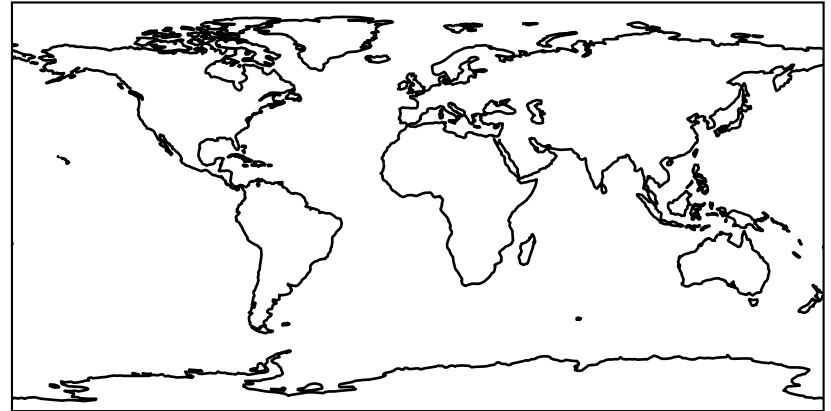
# EmisCH2O\_Ship (Jan2019)

GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



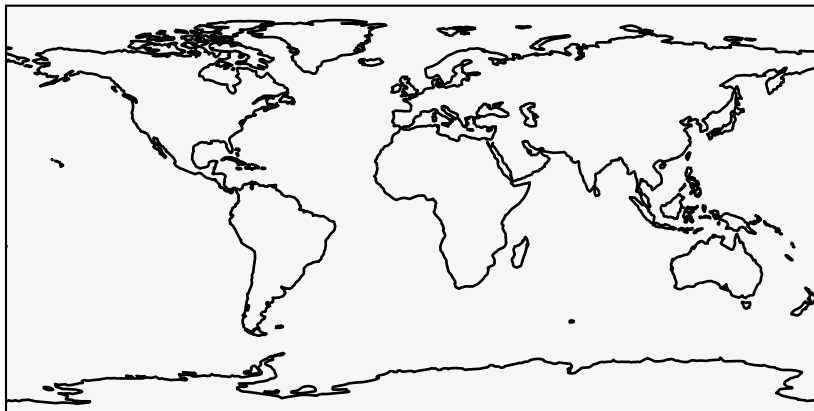
Zero throughout domain  
kg/m2/s

GCHP\_14.0.0-rc.3 (Dev)  
c24



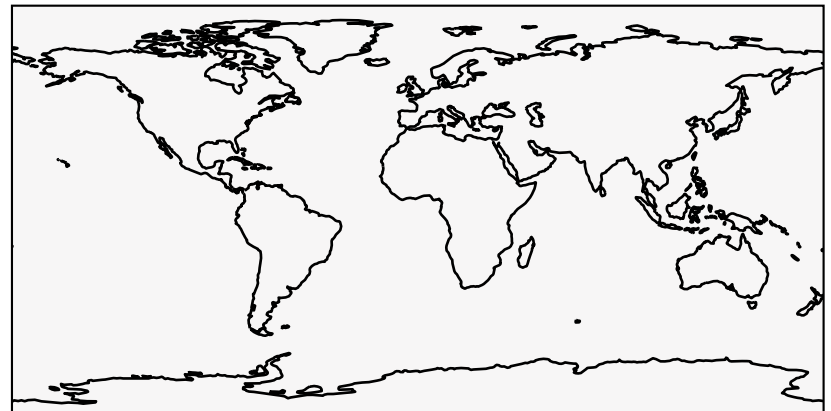
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Dynamic Range



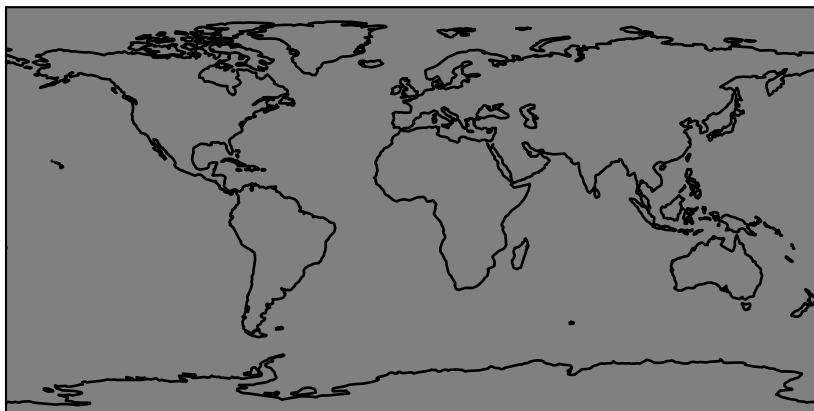
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



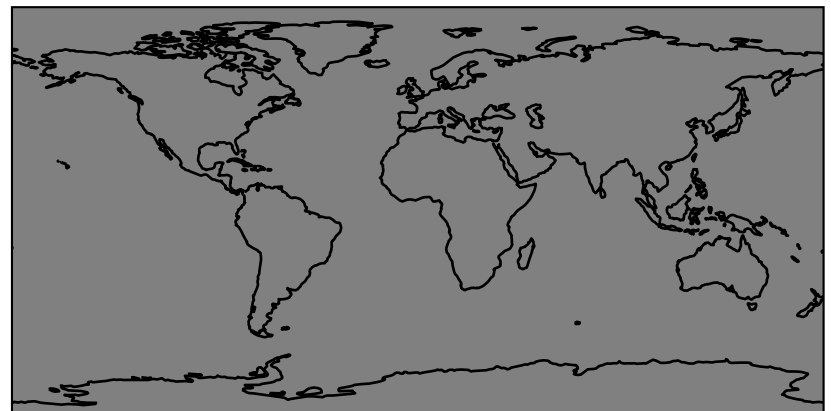
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

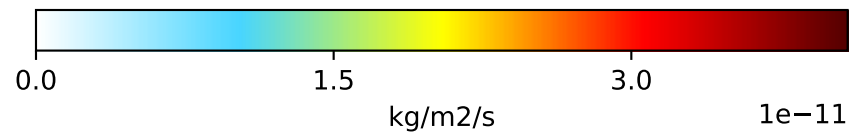
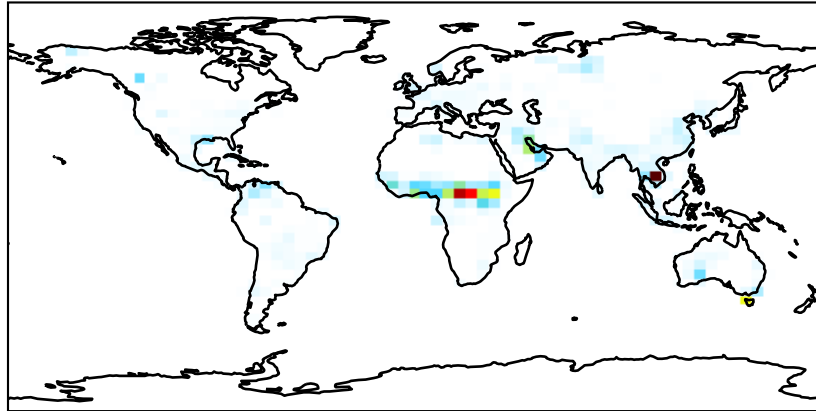
Ratio (1x1.25)  
Dev/Ref, Fixed Range



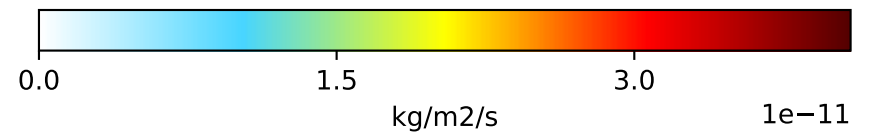
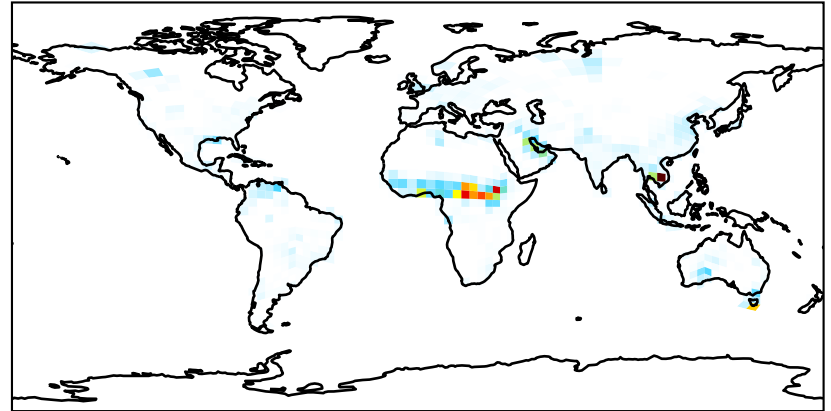
Undefined throughout domain  
unitless

# EmisCH2O\_Total (Jan2019)

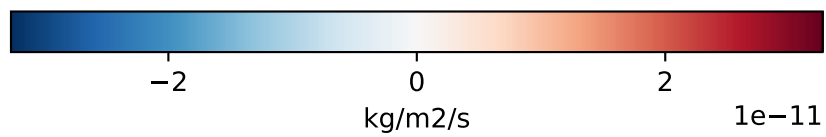
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



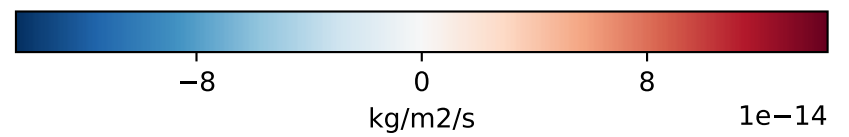
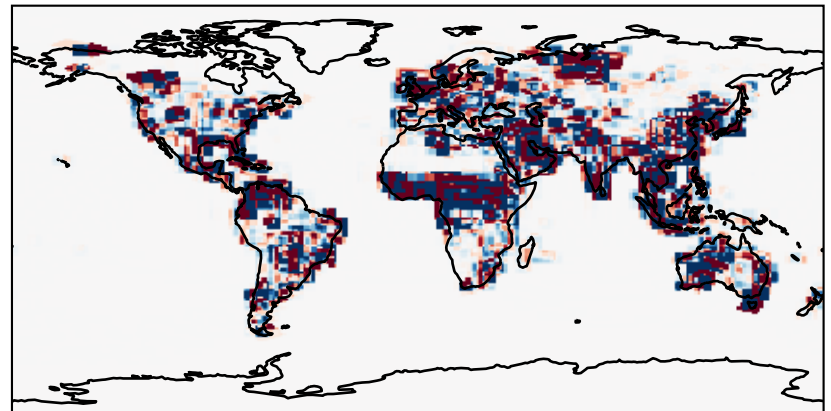
GCHP\_14.0.0-rc.3 (Dev)  
c24



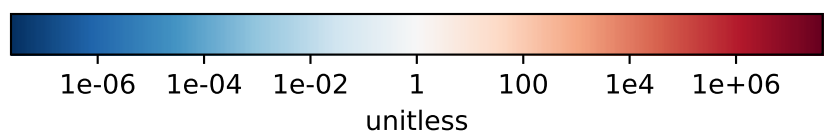
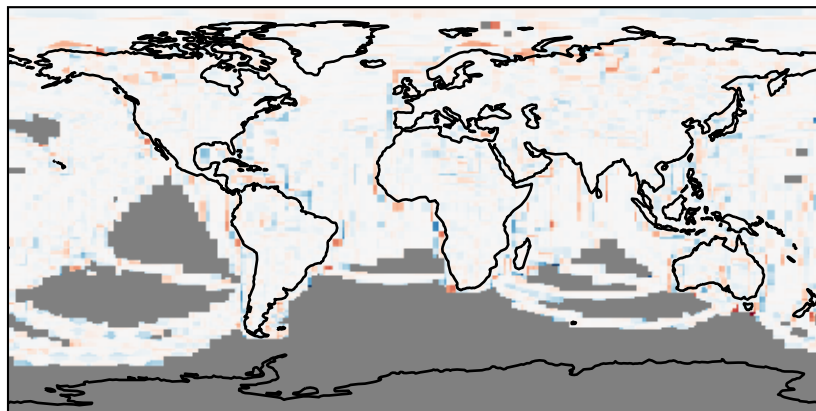
Difference (1x1.25)  
Dev - Ref, Dynamic Range



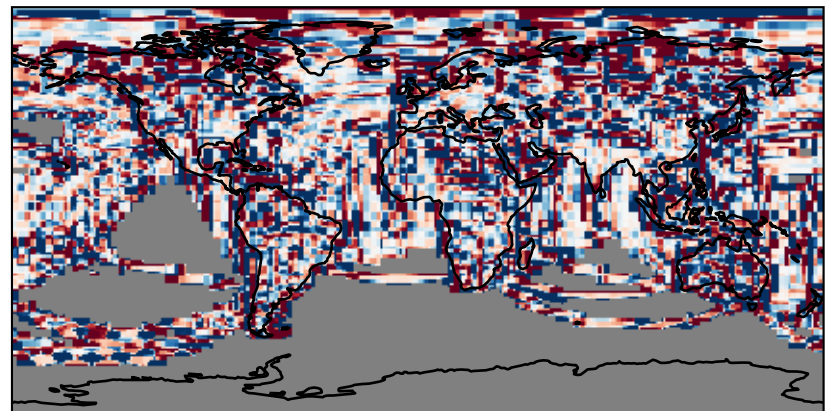
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

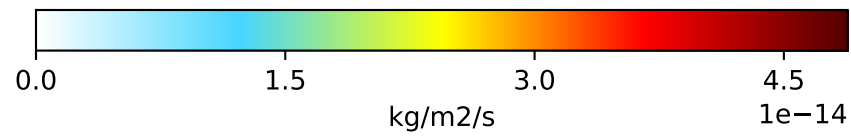
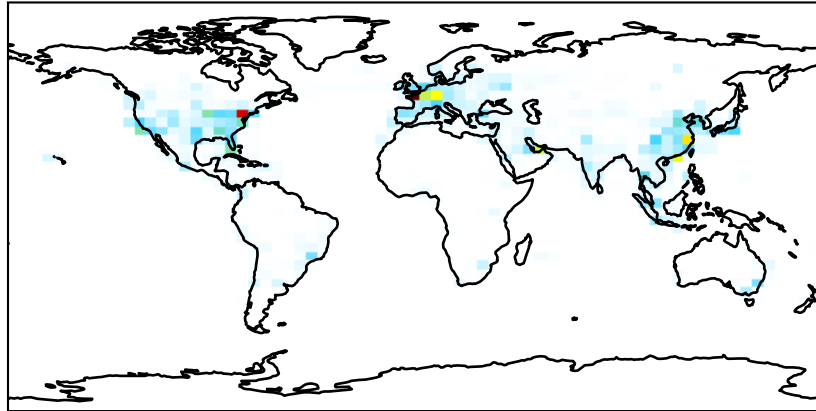


Ratio (1x1.25)  
Dev/Ref, Fixed Range

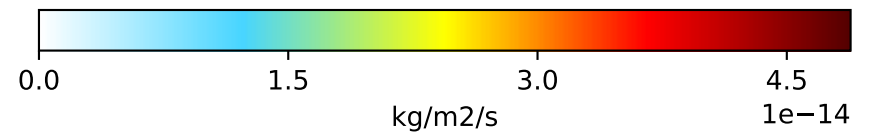
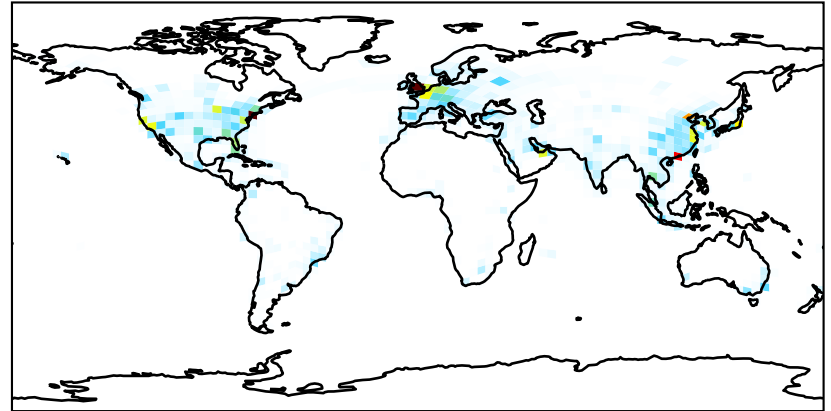


# EmisMACR\_Aircraft (Jan2019)

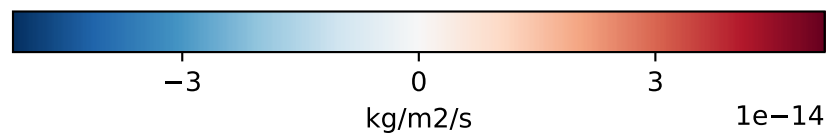
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



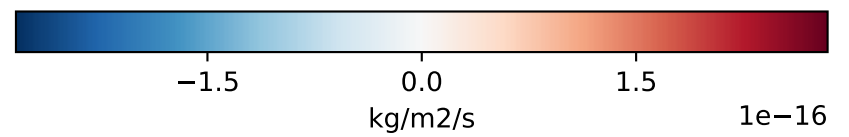
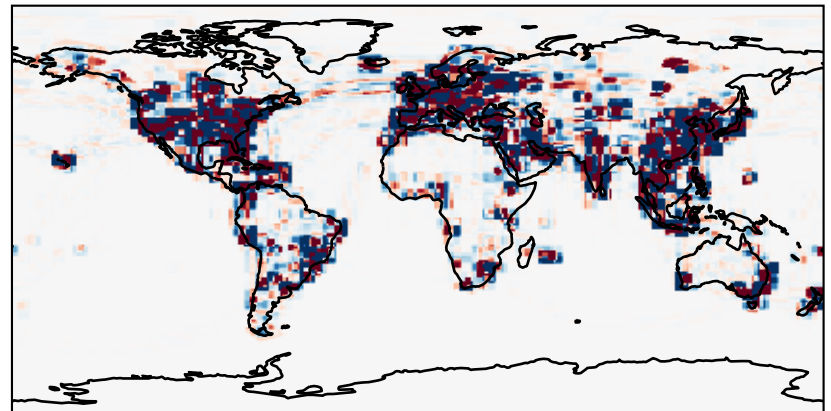
GCHP\_14.0.0-rc.3 (Dev)  
c24



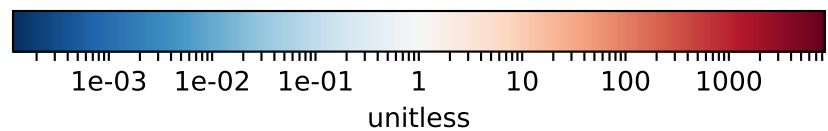
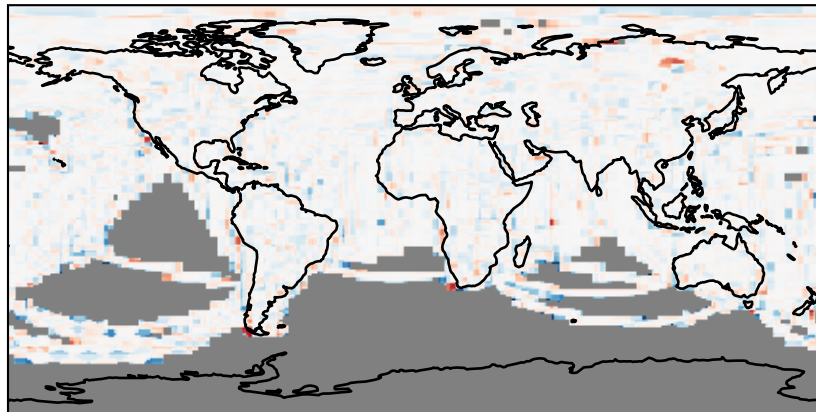
Difference (1x1.25)  
Dev - Ref, Dynamic Range



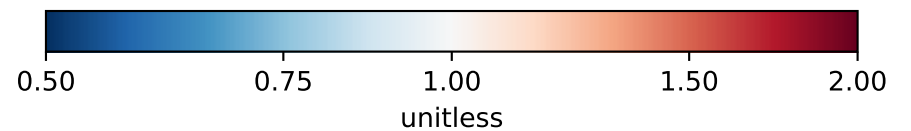
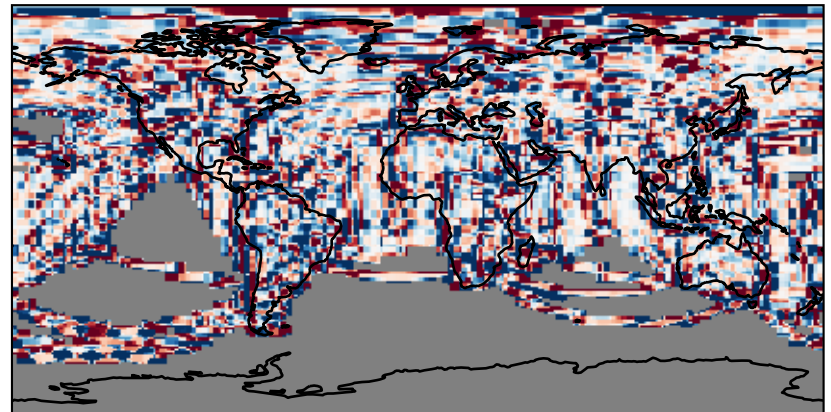
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

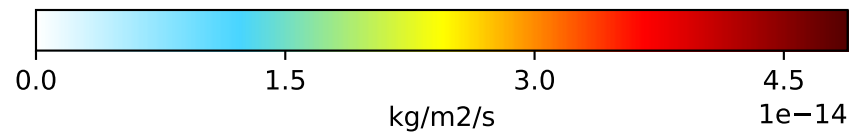
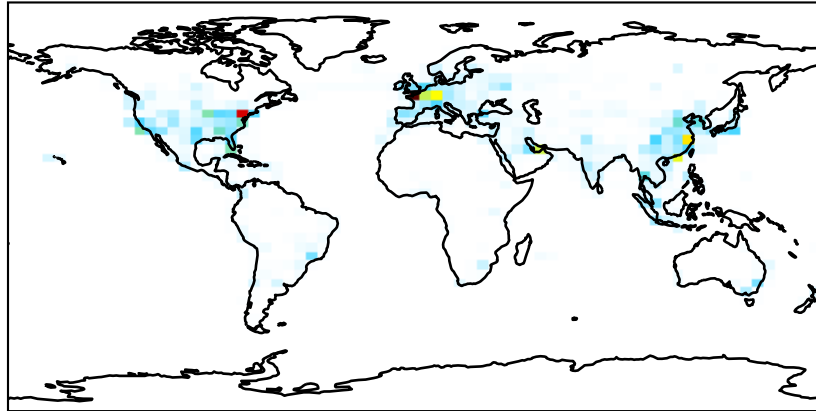


Ratio (1x1.25)  
Dev/Ref, Fixed Range

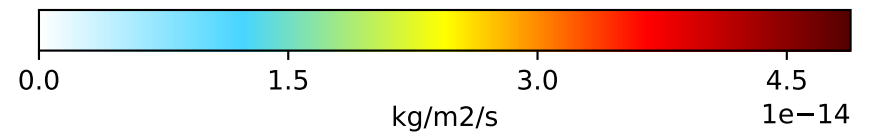
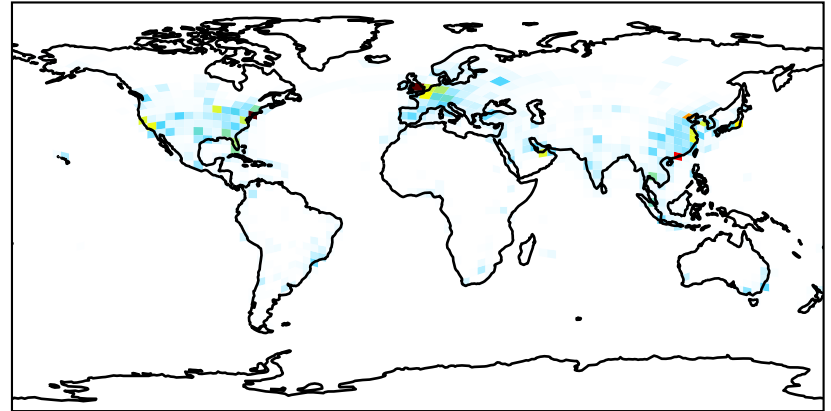


# EmisMACR\_Total (Jan2019)

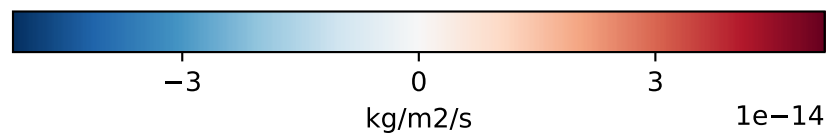
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



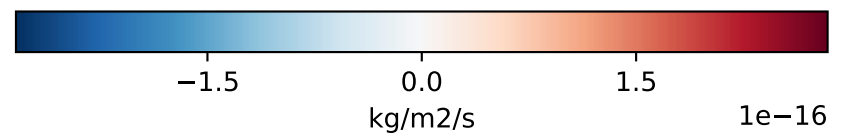
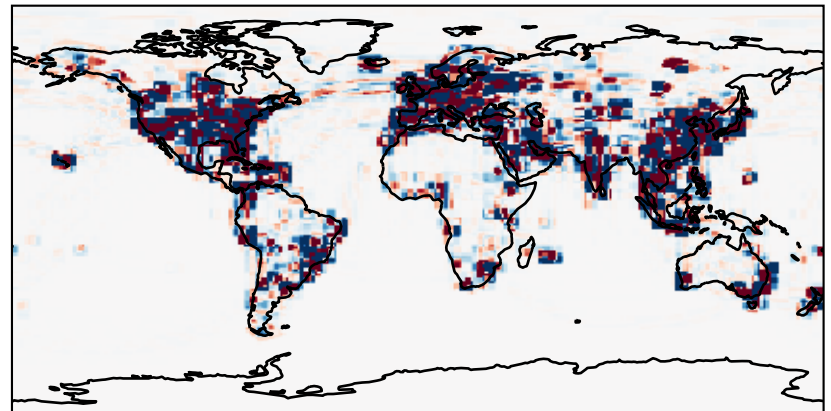
GCHP\_14.0.0-rc.3 (Dev)  
c24



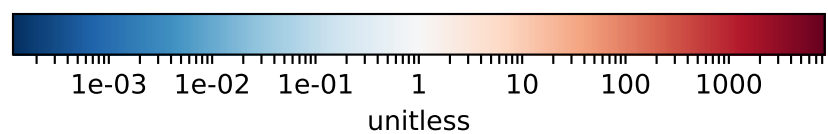
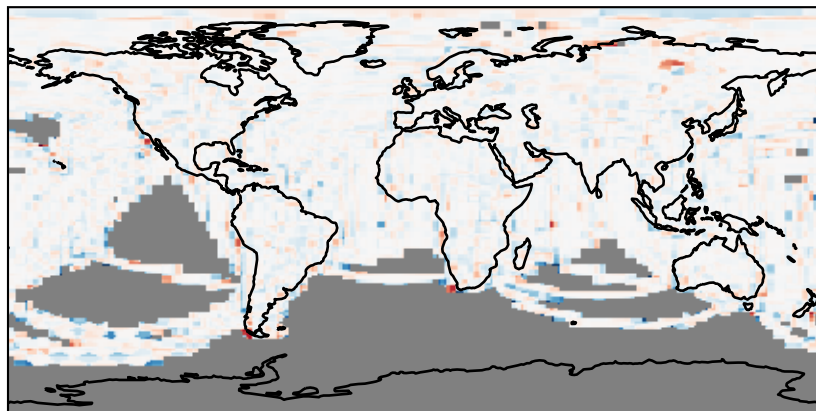
Difference (1x1.25)  
Dev - Ref, Dynamic Range



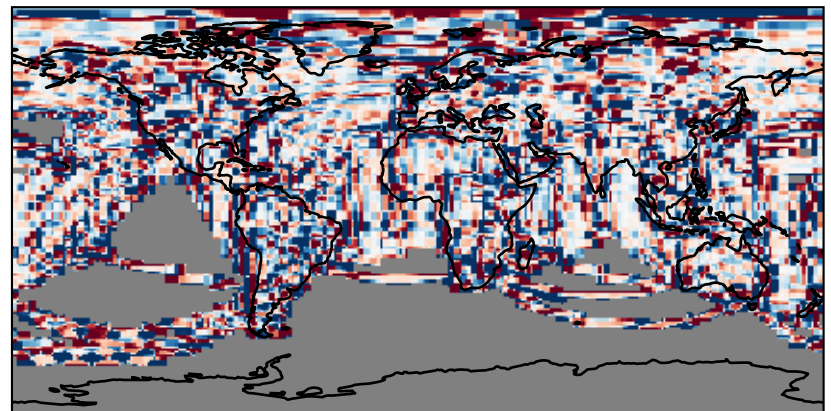
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

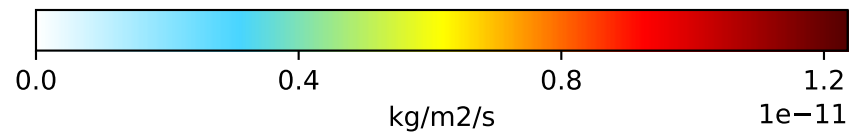
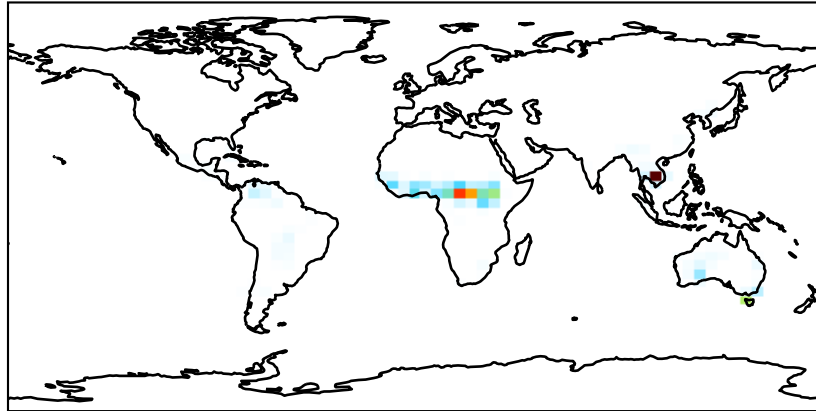


Ratio (1x1.25)  
Dev/Ref, Fixed Range

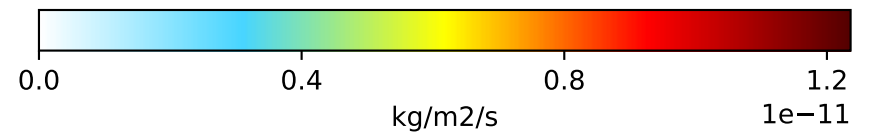
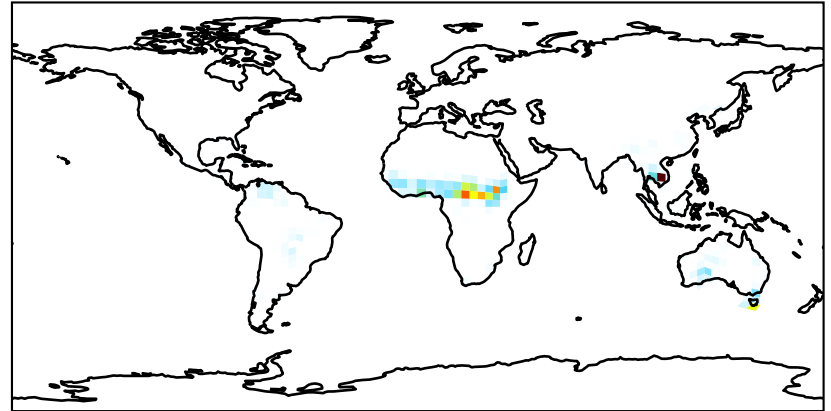


# EmisACET\_BioBurn (Jan2019)

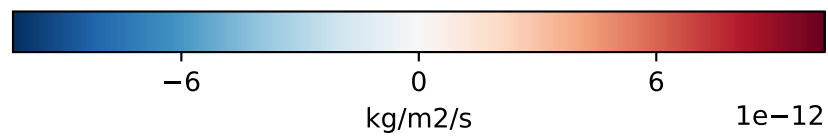
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



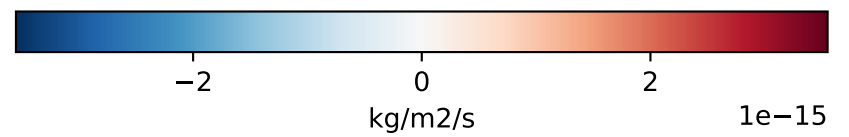
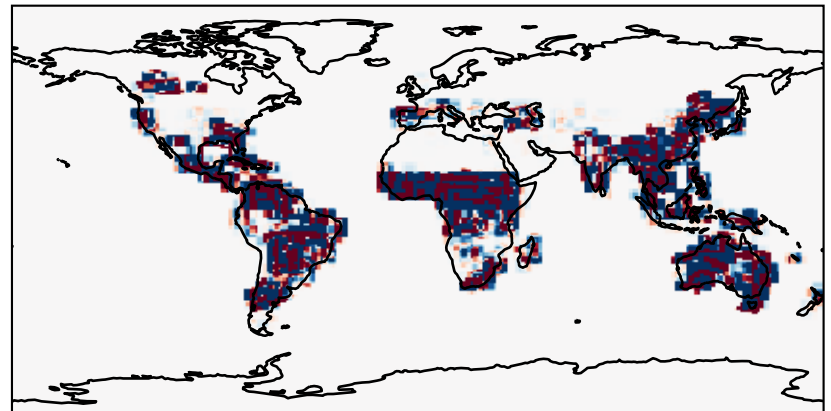
GCHP\_14.0.0-rc.3 (Dev)  
c24



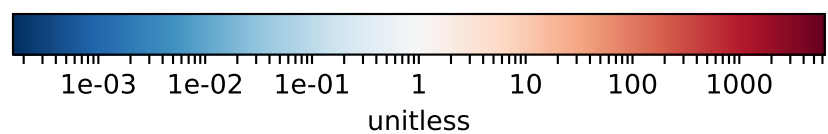
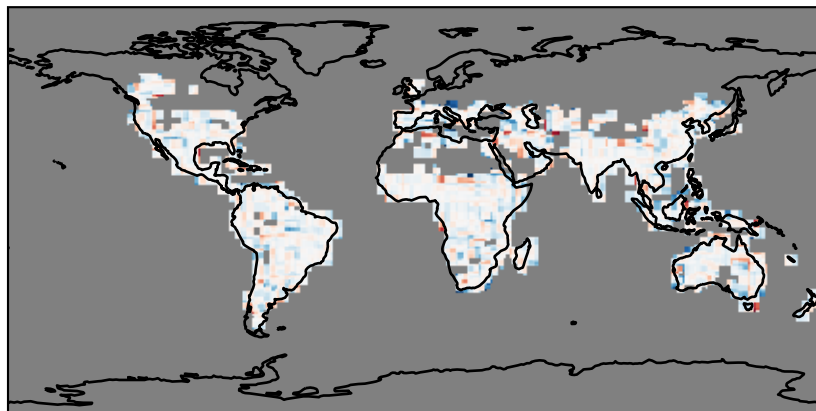
Difference (1x1.25)  
Dev - Ref, Dynamic Range



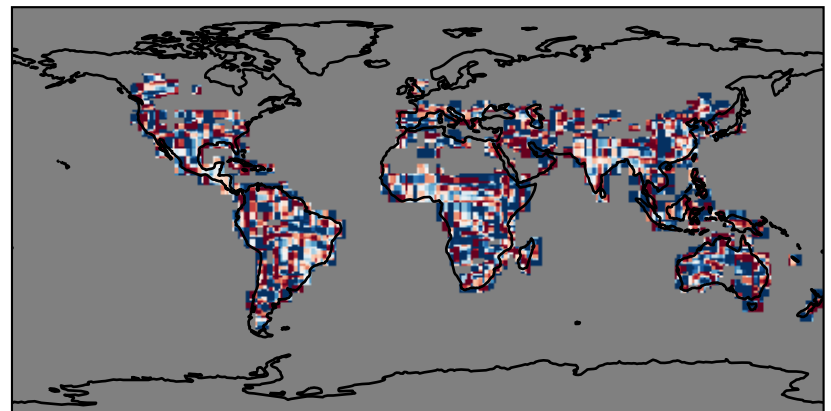
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

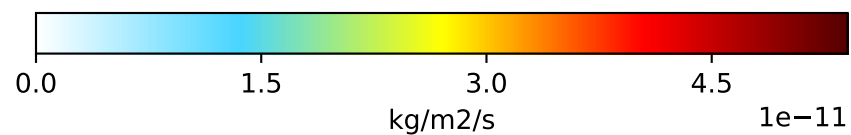
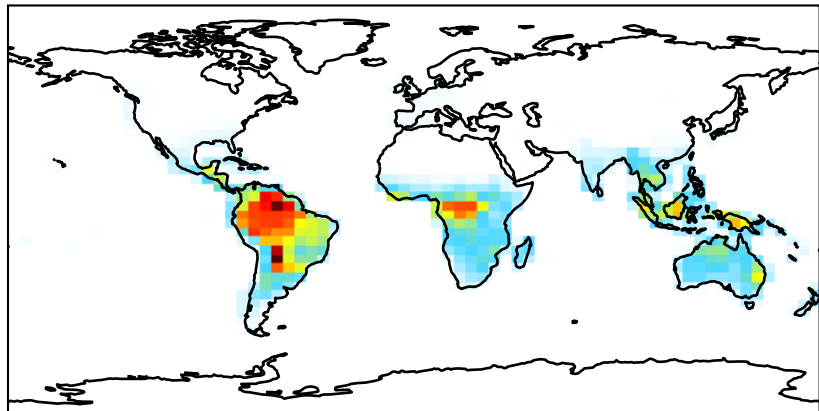


Ratio (1x1.25)  
Dev/Ref, Fixed Range

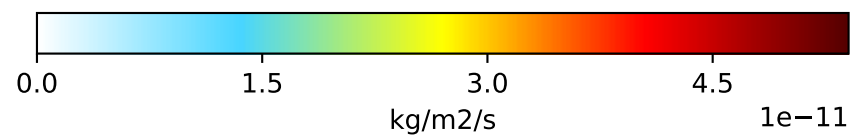
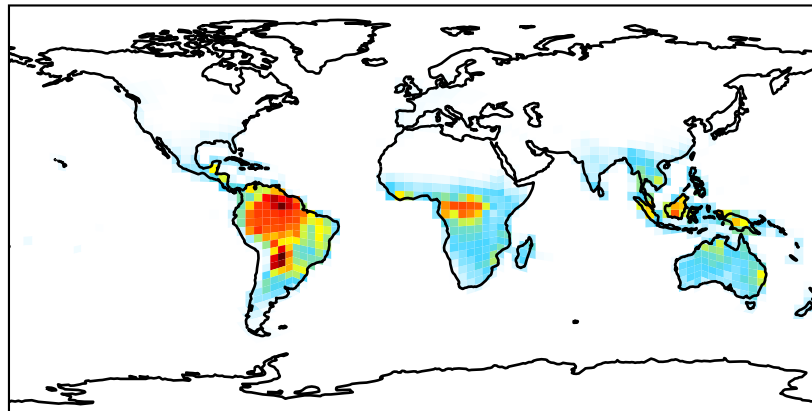


# EmisACET\_Biogenic (Jan2019)

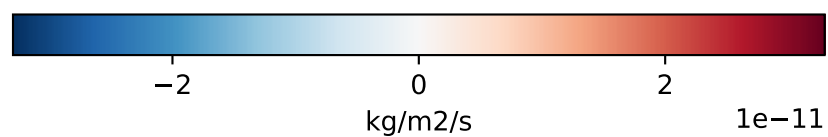
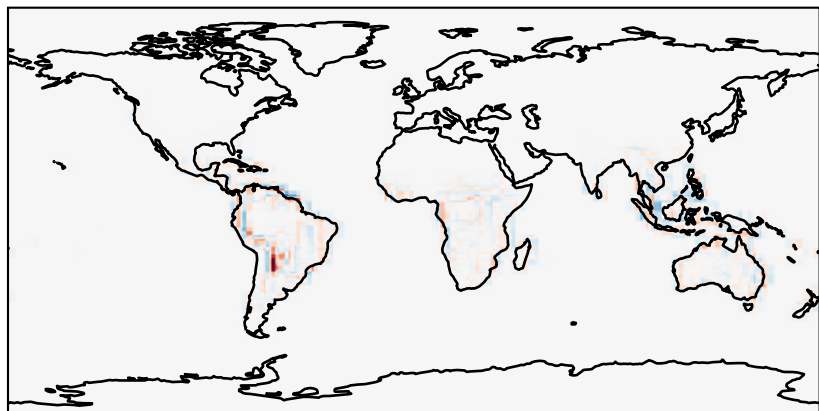
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



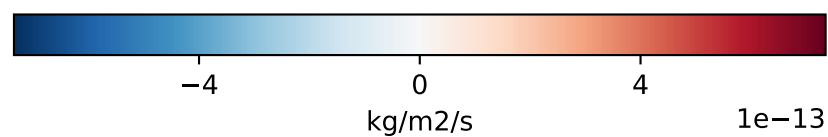
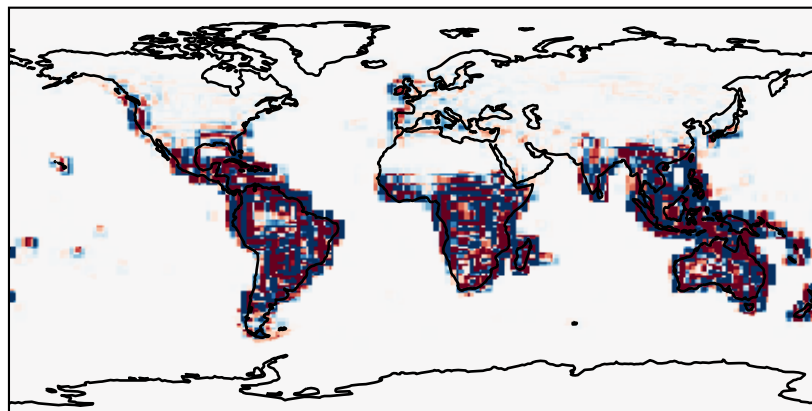
GCHP\_14.0.0-rc.3 (Dev)  
c24



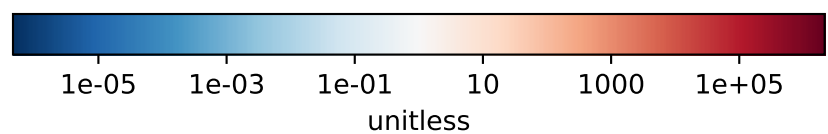
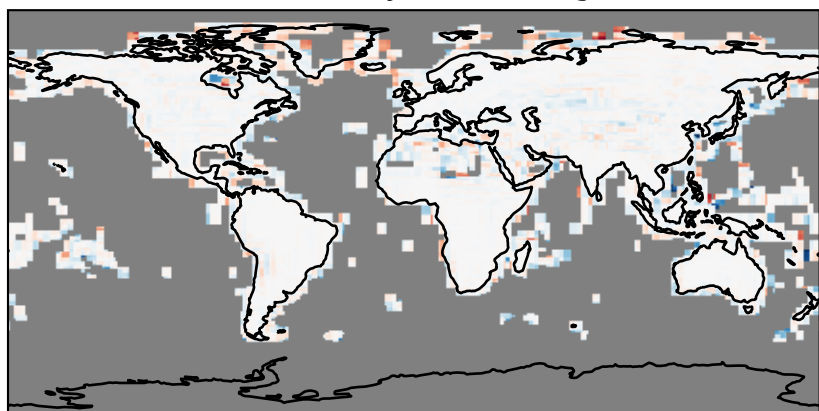
Difference (1x1.25)  
Dev - Ref, Dynamic Range



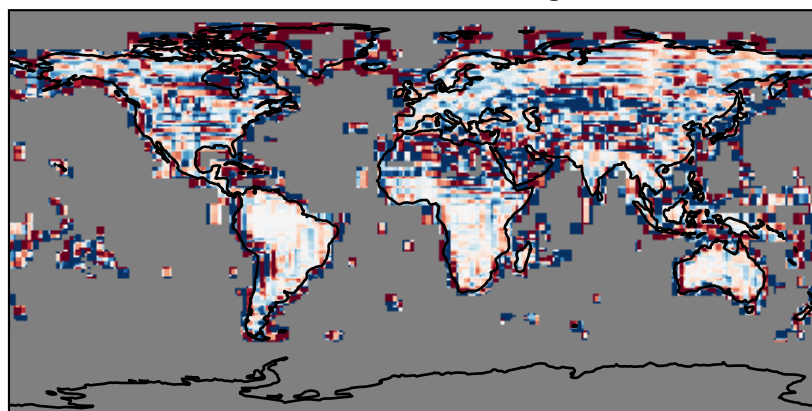
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



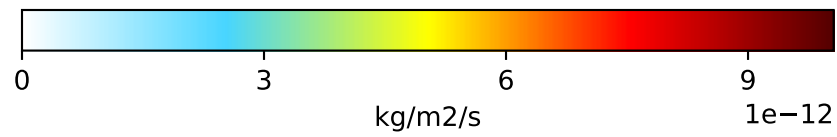
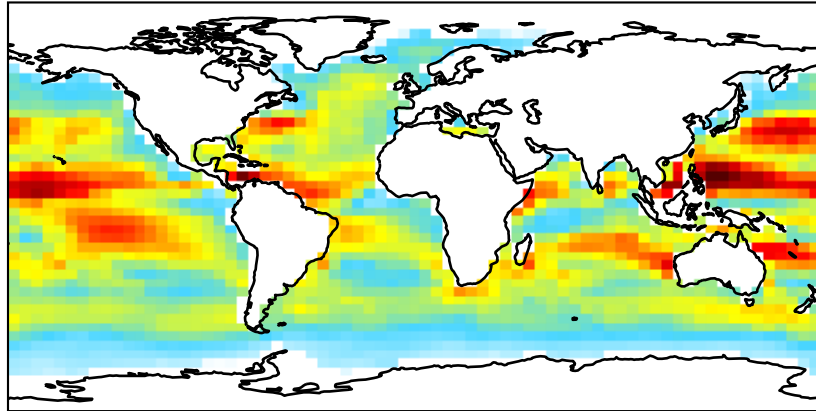
Ratio (1x1.25)  
Dev/Ref, Fixed Range



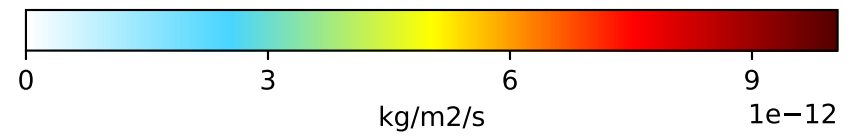
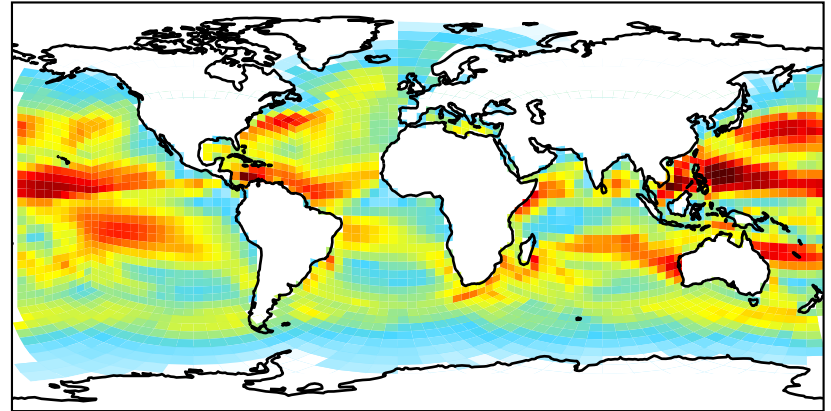


# EmisACET\_Ocean (Jan2019)

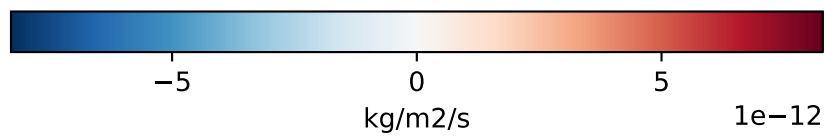
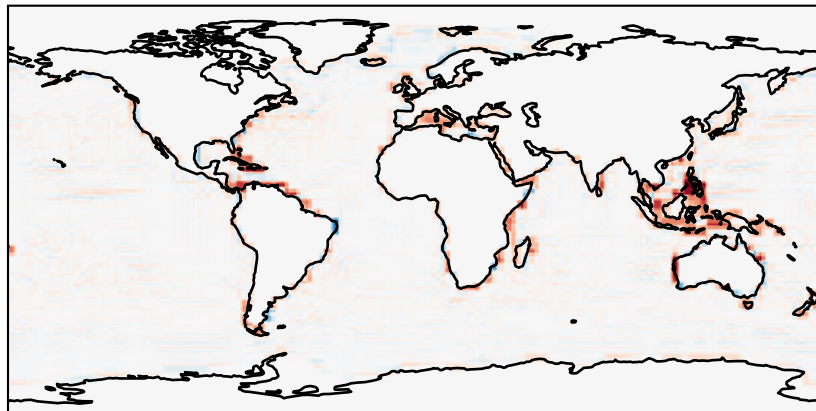
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



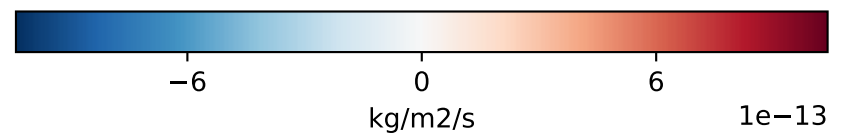
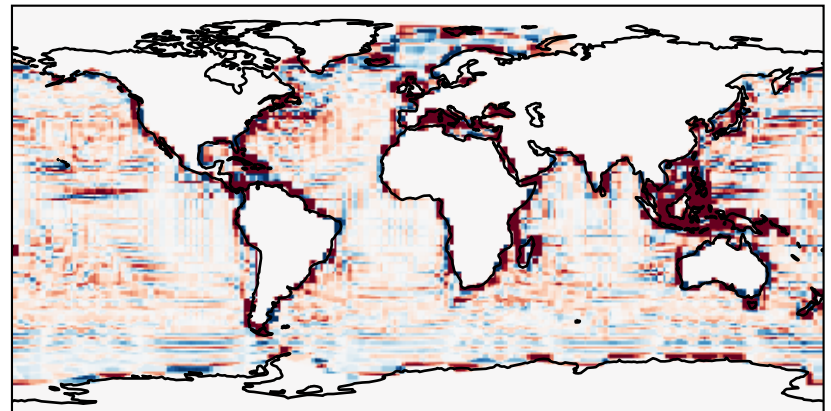
GCHP\_14.0.0-rc.3 (Dev)  
c24



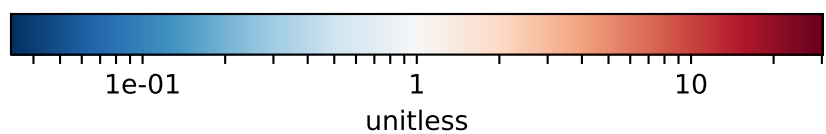
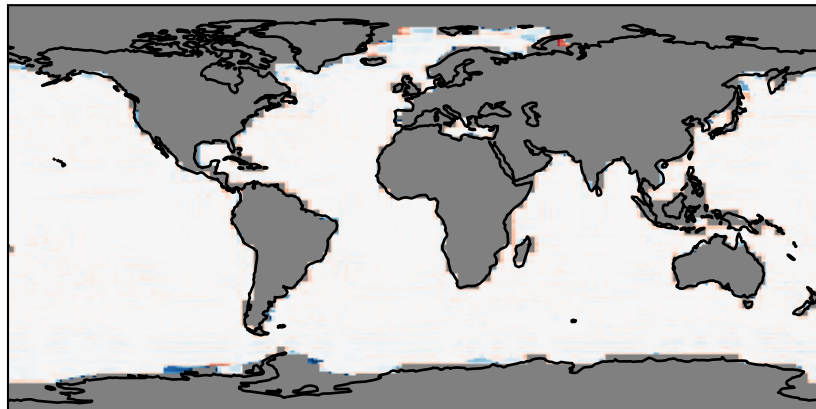
Difference (1x1.25)  
Dev - Ref, Dynamic Range



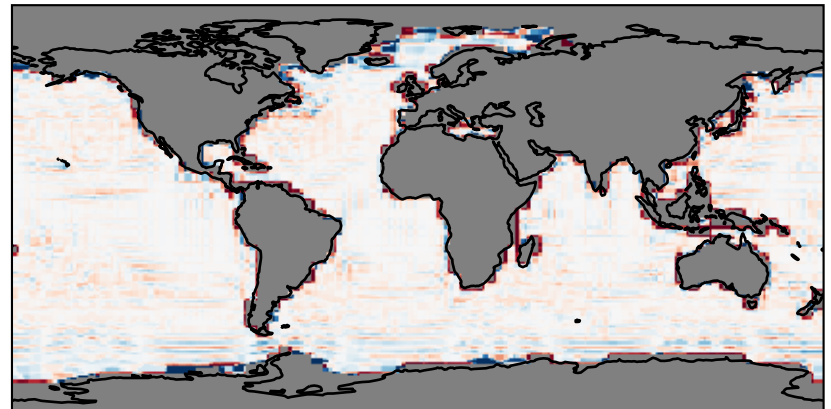
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

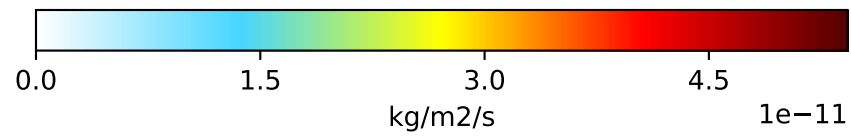
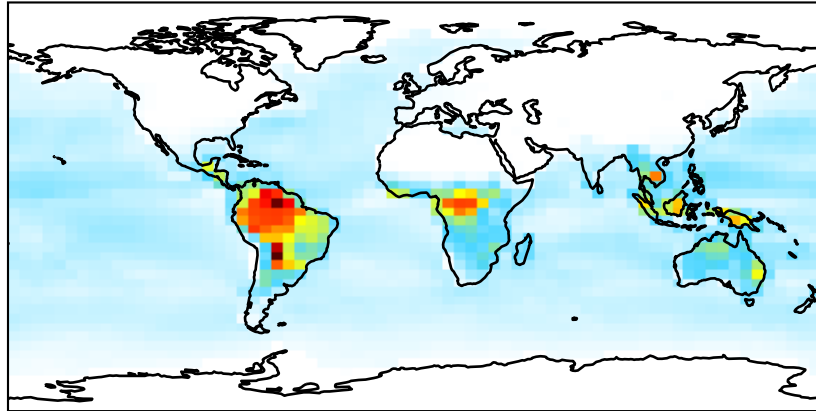


Ratio (1x1.25)  
Dev/Ref, Fixed Range

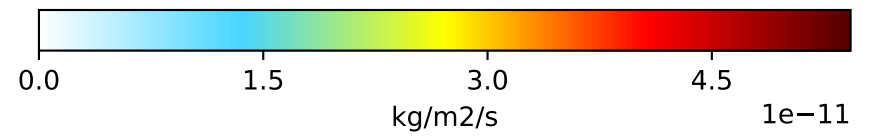
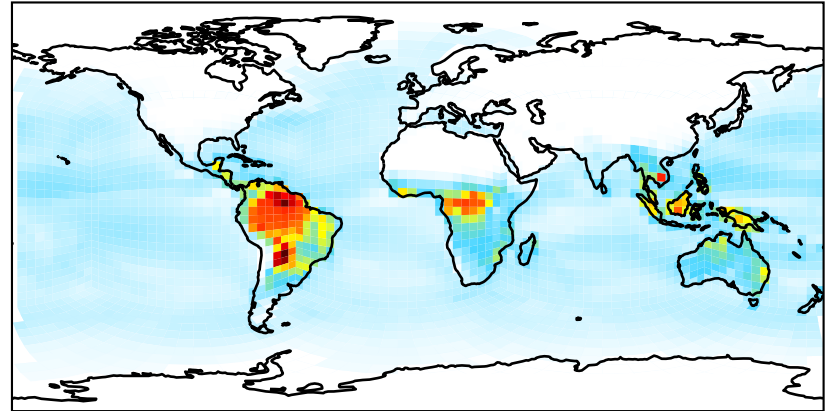


# EmisACET\_Total (Jan2019)

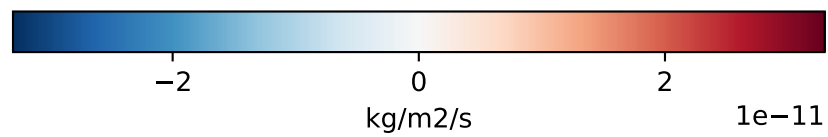
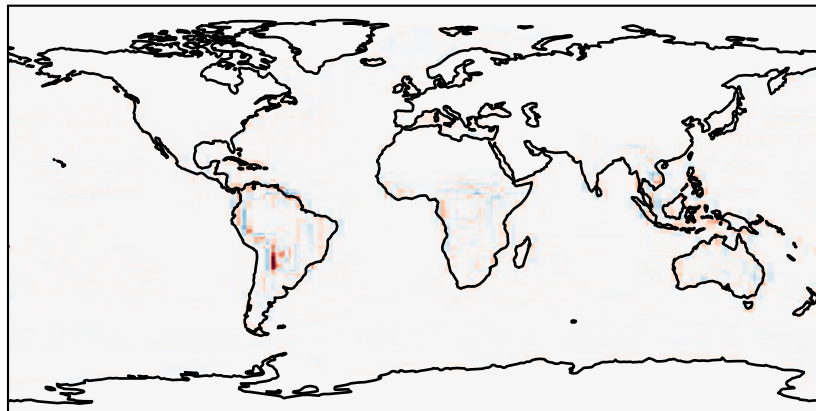
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



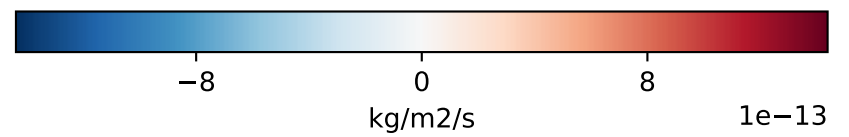
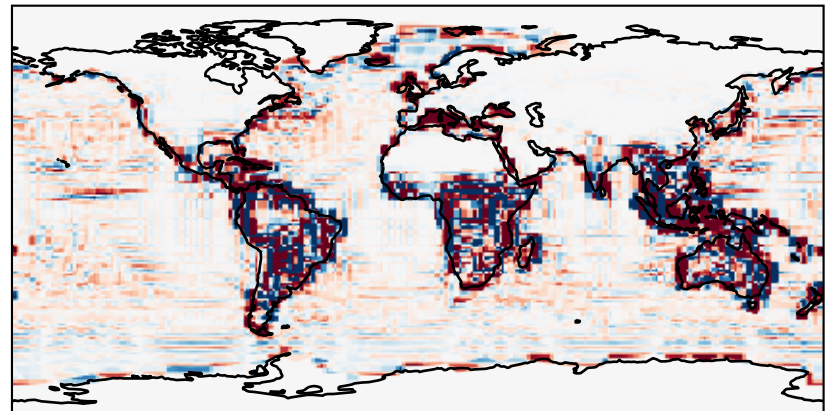
GCHP\_14.0.0-rc.3 (Dev)  
c24



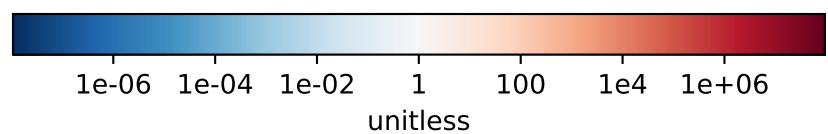
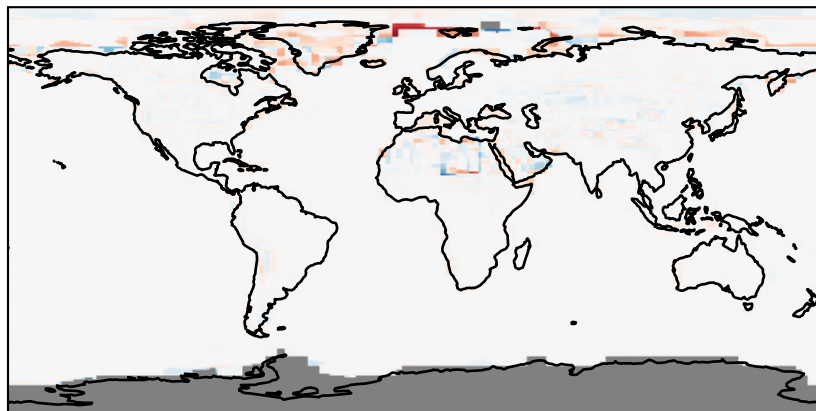
Difference (1x1.25)  
Dev - Ref, Dynamic Range



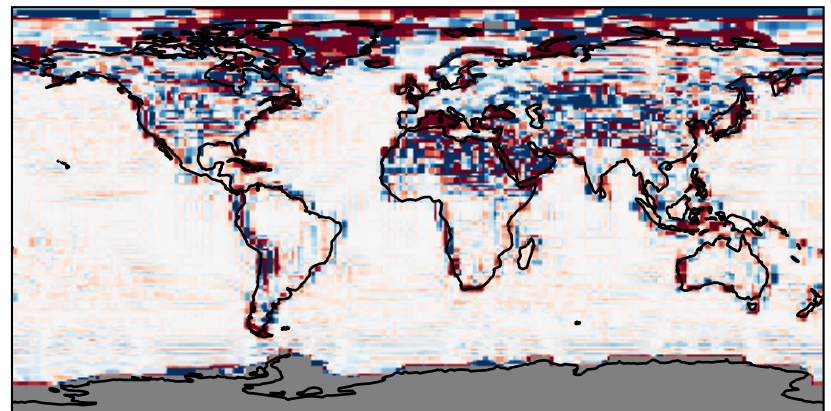
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

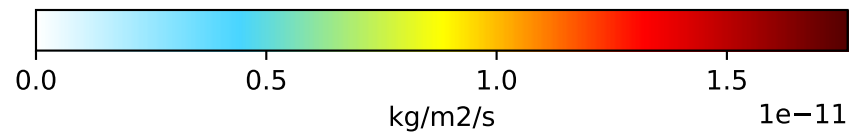
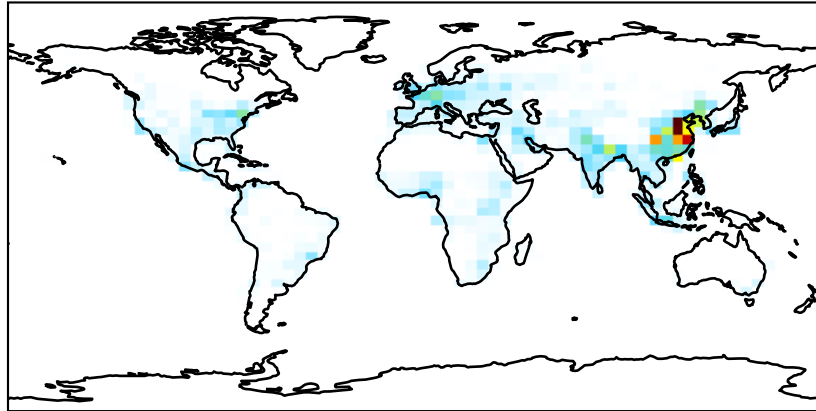


Ratio (1x1.25)  
Dev/Ref, Fixed Range

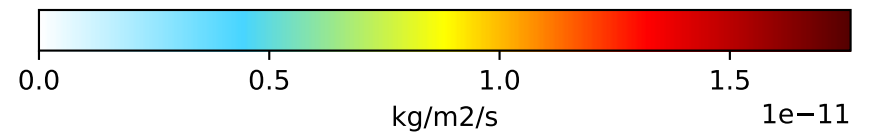
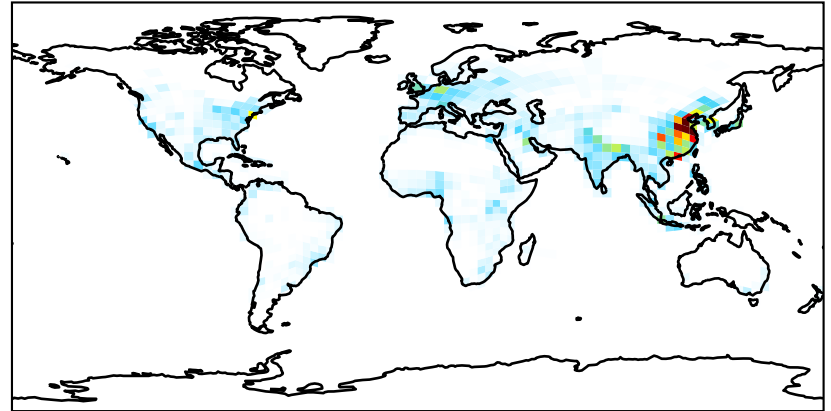


# EmisMEK\_Anthro (Jan2019)

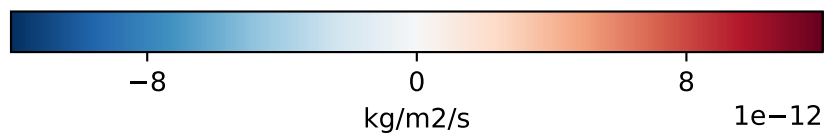
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



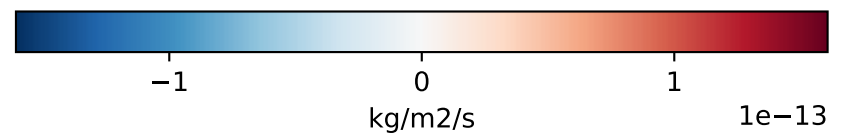
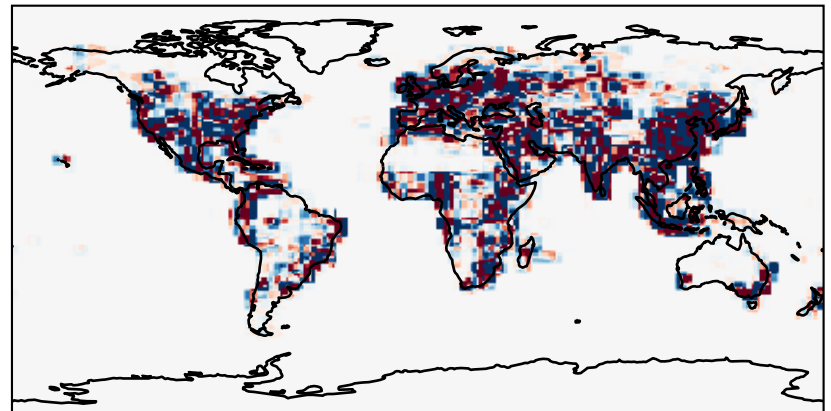
GCHP\_14.0.0-rc.3 (Dev)  
c24



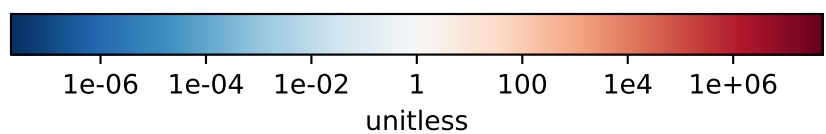
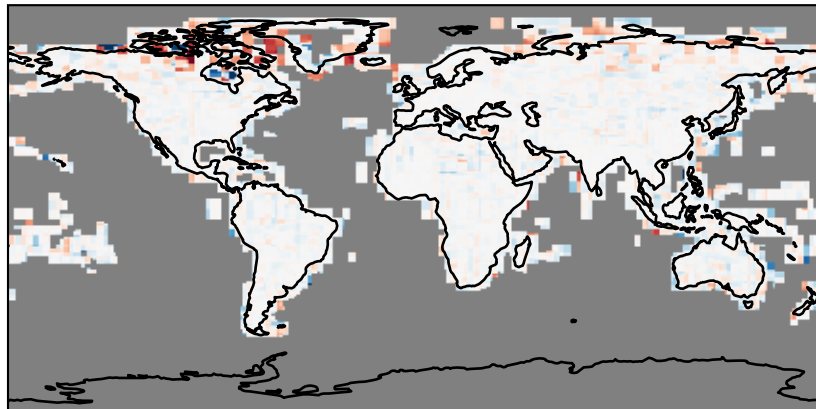
Difference (1x1.25)  
Dev - Ref, Dynamic Range



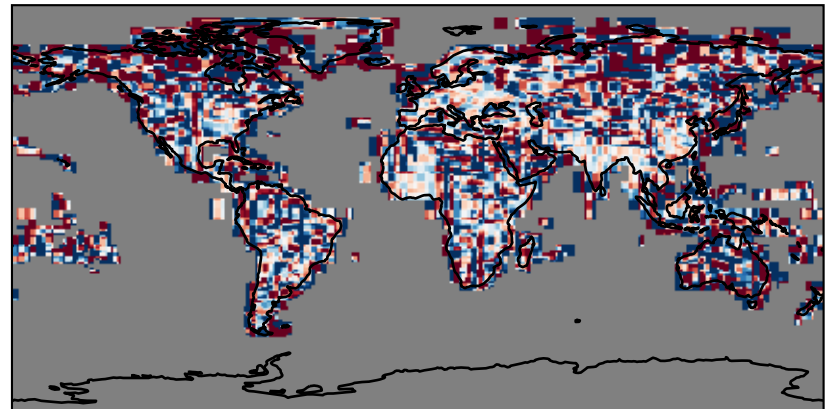
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

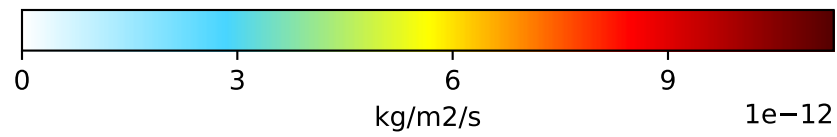
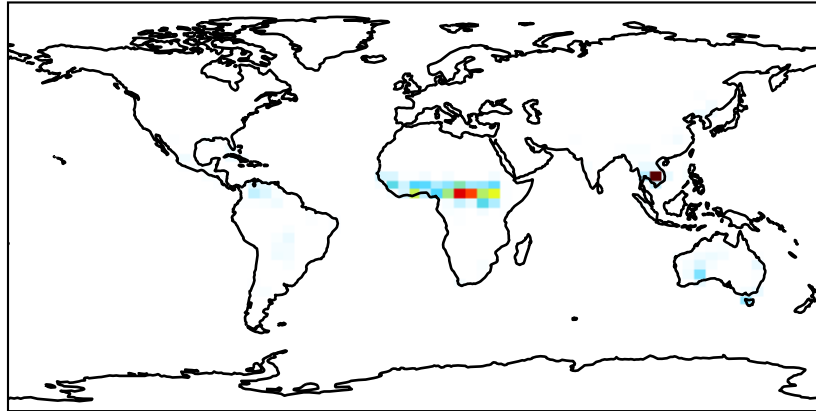


Ratio (1x1.25)  
Dev/Ref, Fixed Range

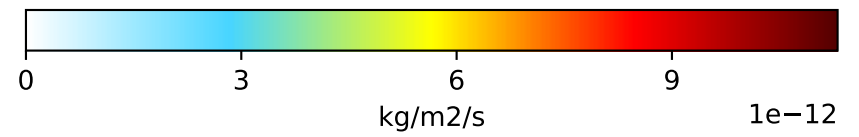
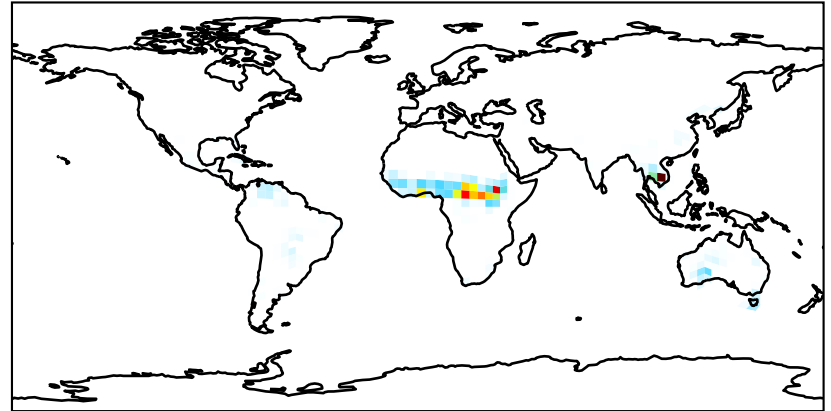


# EmisMEK\_BioBurn (Jan2019)

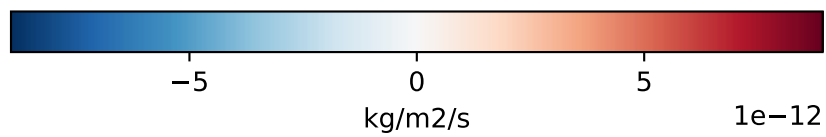
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



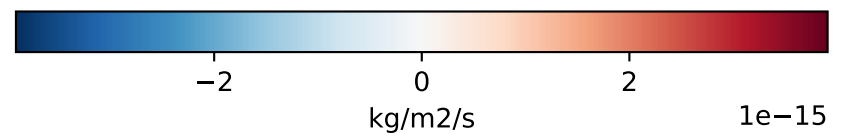
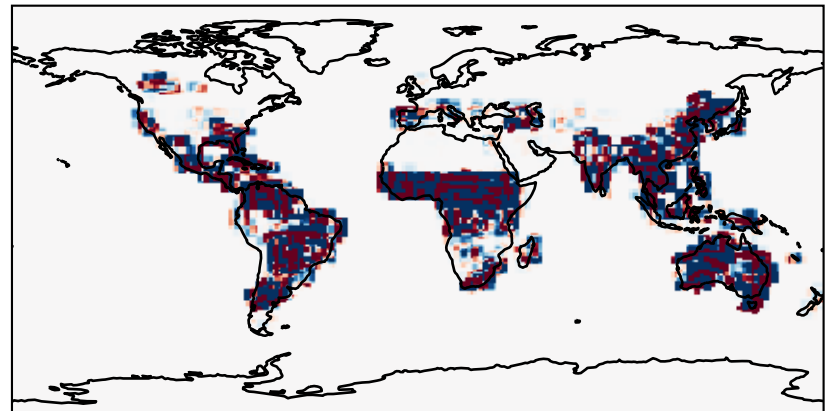
GCHP\_14.0.0-rc.3 (Dev)  
c24



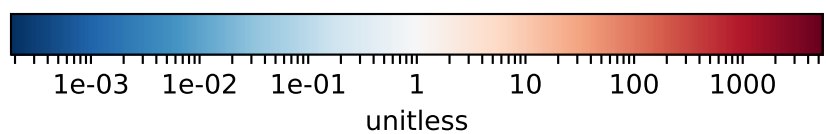
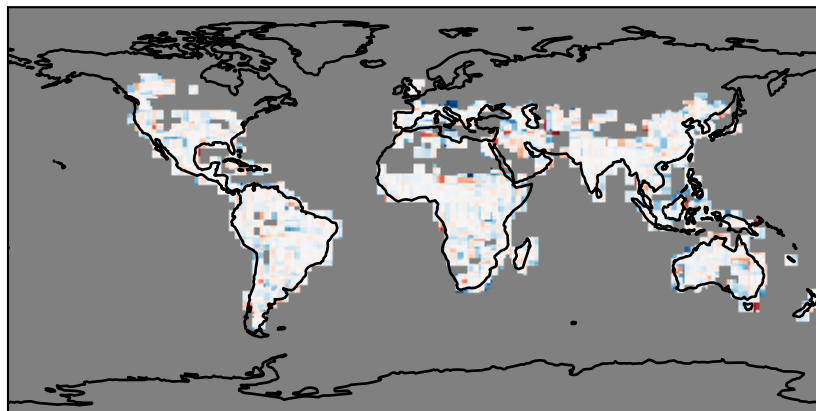
Difference (1x1.25)  
Dev - Ref, Dynamic Range



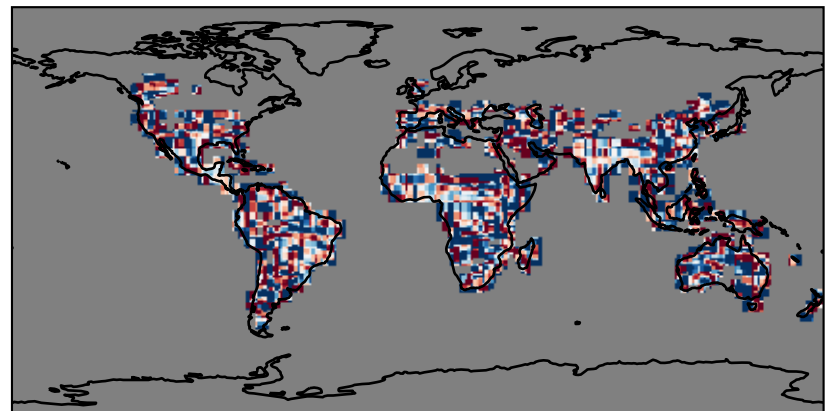
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

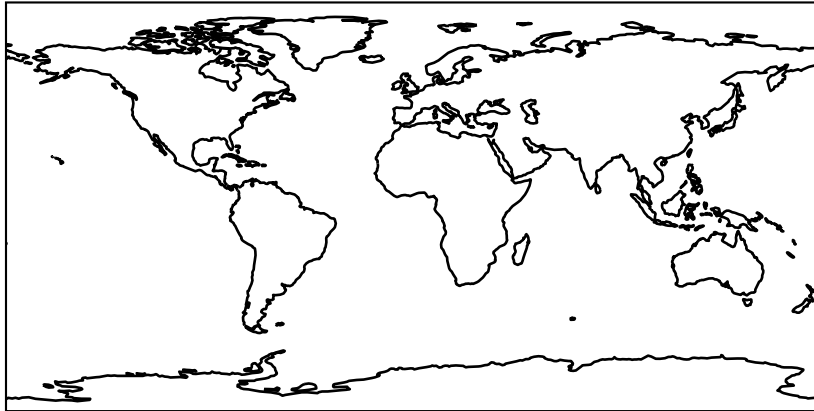


Ratio (1x1.25)  
Dev/Ref, Fixed Range



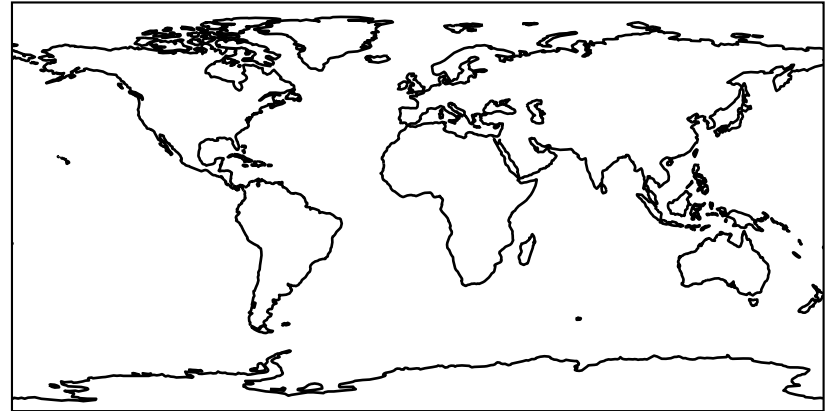
# EmisMEK\_Ship (Jan2019)

GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



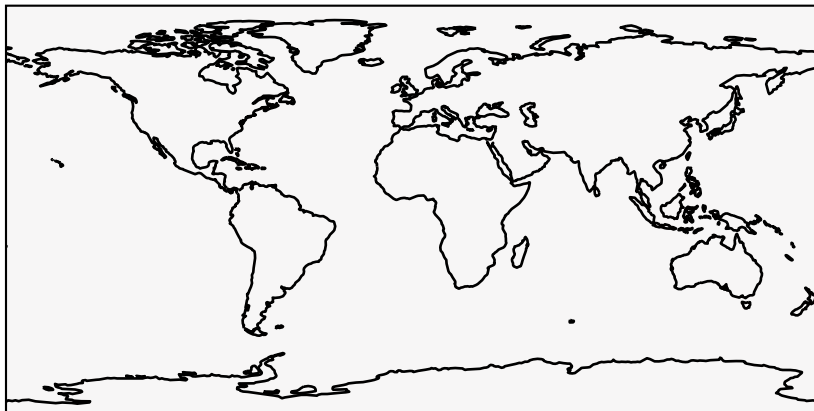
Zero throughout domain  
kg/m2/s

GCHP\_14.0.0-rc.3 (Dev)  
c24



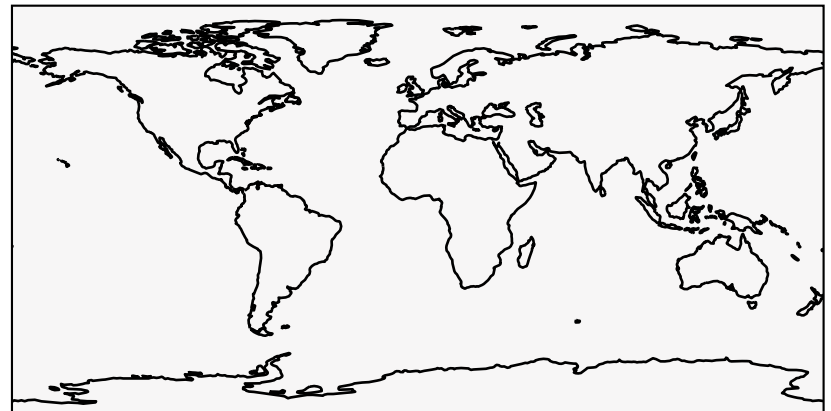
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Dynamic Range



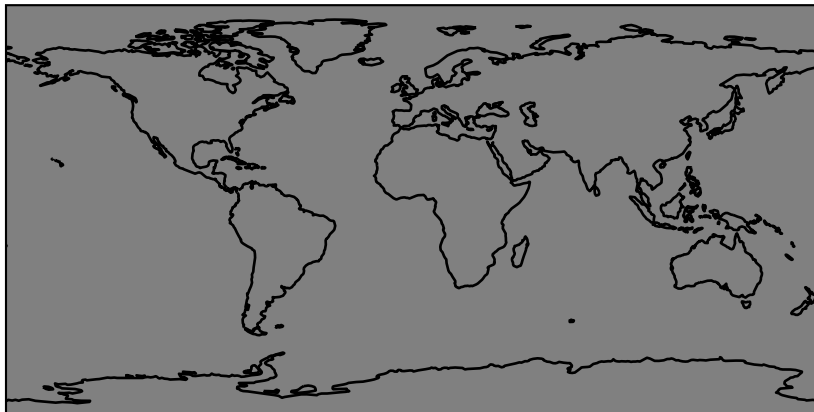
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



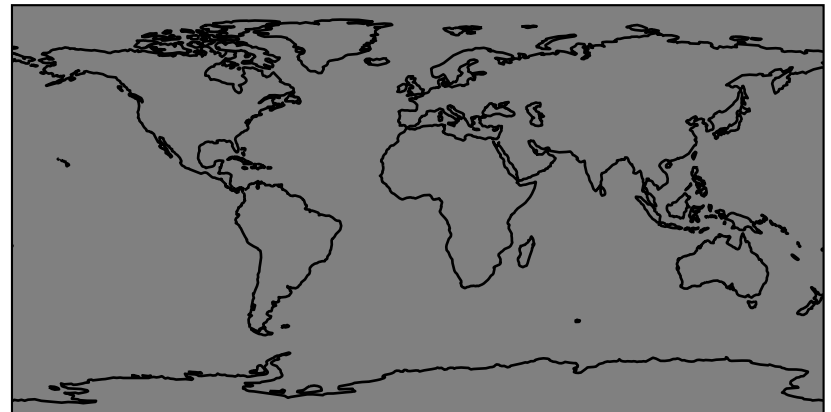
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

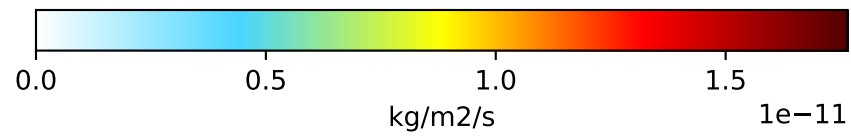
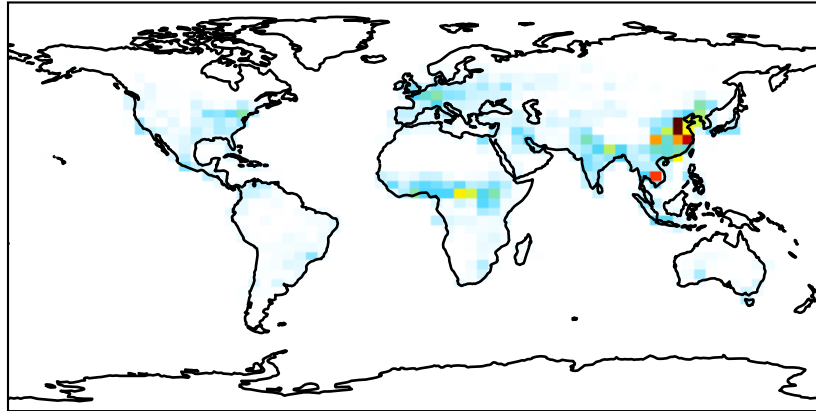
Ratio (1x1.25)  
Dev/Ref, Fixed Range



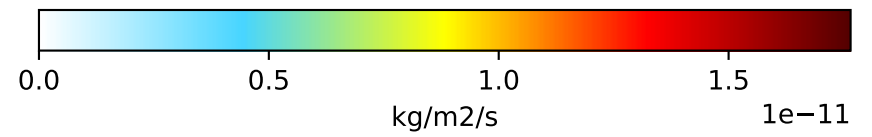
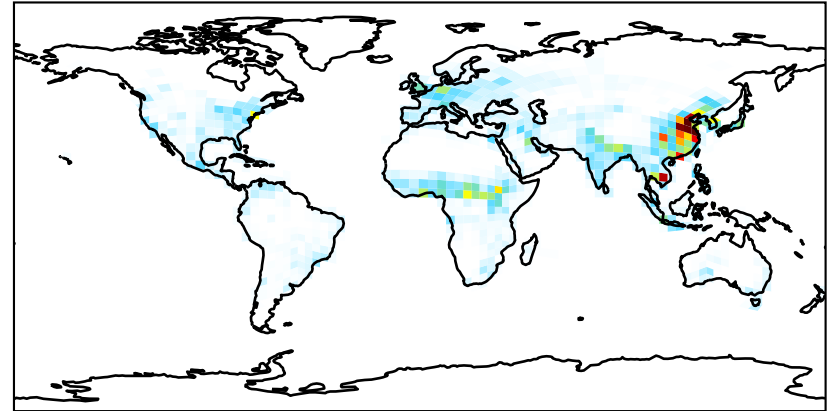
Undefined throughout domain  
unitless

# EmisMEK\_Total (Jan2019)

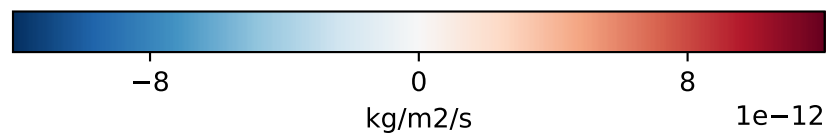
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



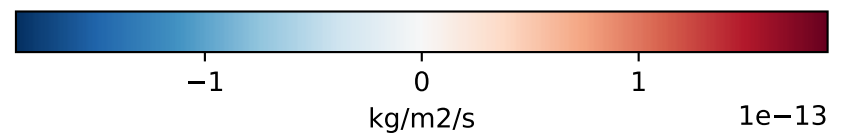
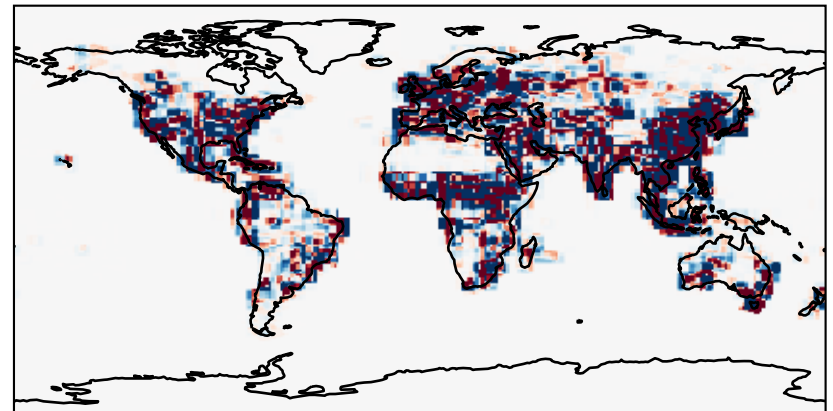
GCHP\_14.0.0-rc.3 (Dev)  
c24



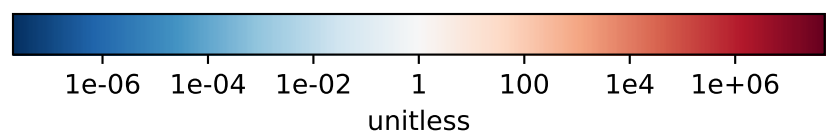
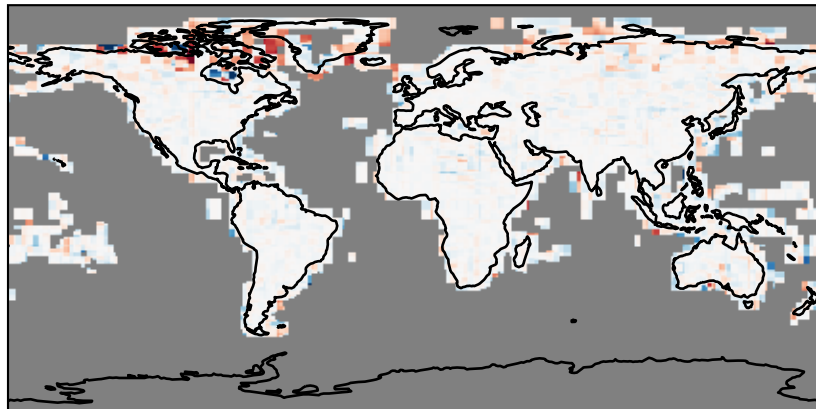
Difference (1x1.25)  
Dev - Ref, Dynamic Range



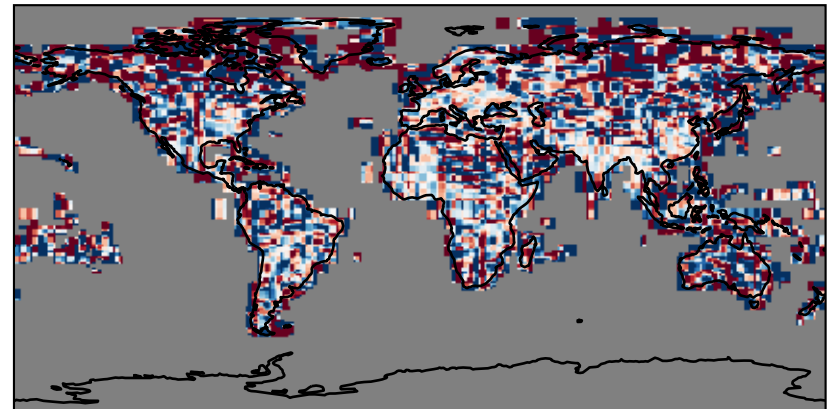
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

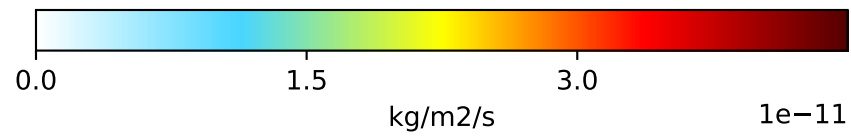
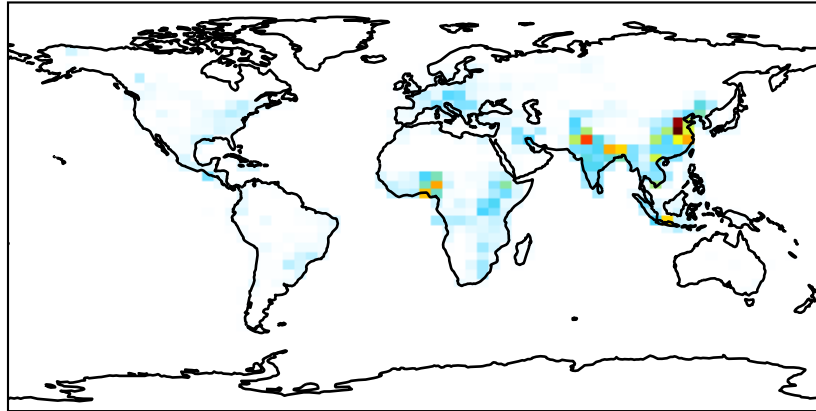


Ratio (1x1.25)  
Dev/Ref, Fixed Range

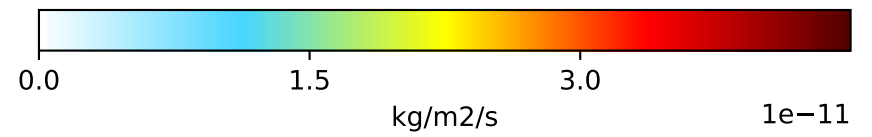
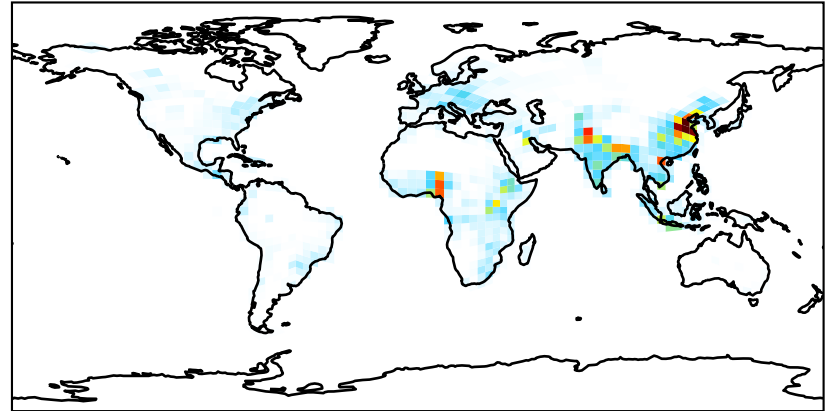


# EmisHCOOH\_Anthro (Jan2019)

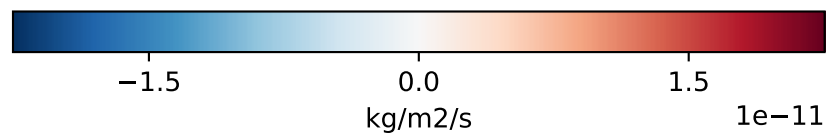
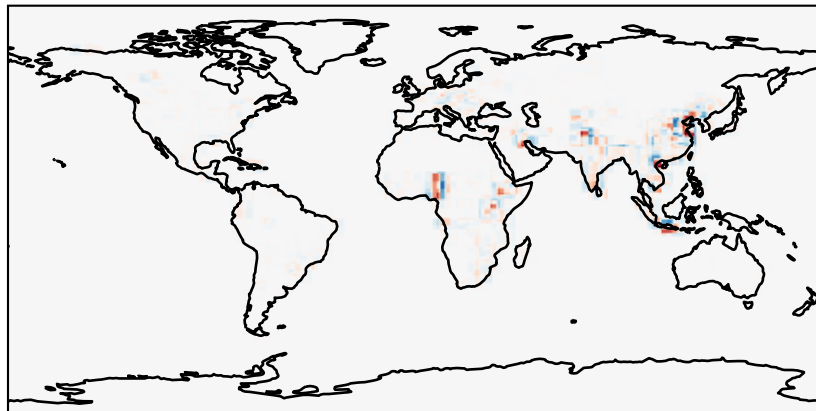
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



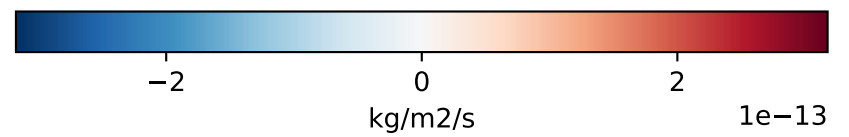
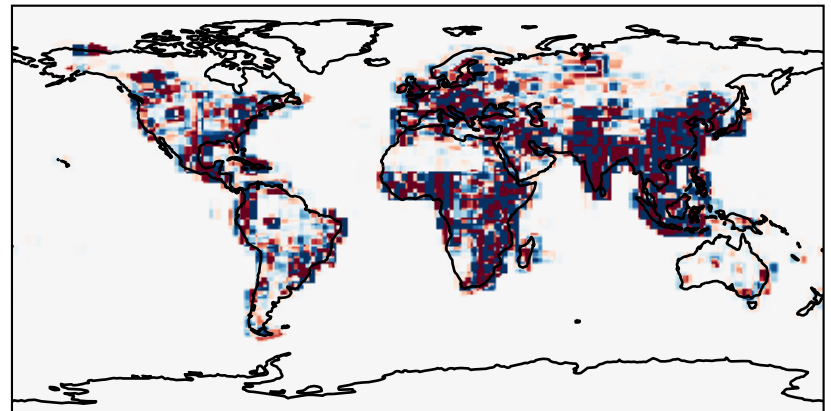
GCHP\_14.0.0-rc.3 (Dev)  
c24



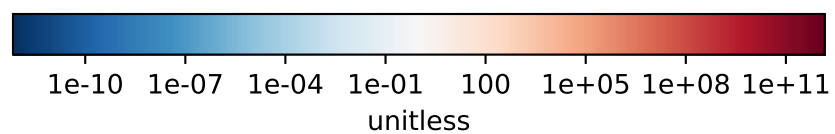
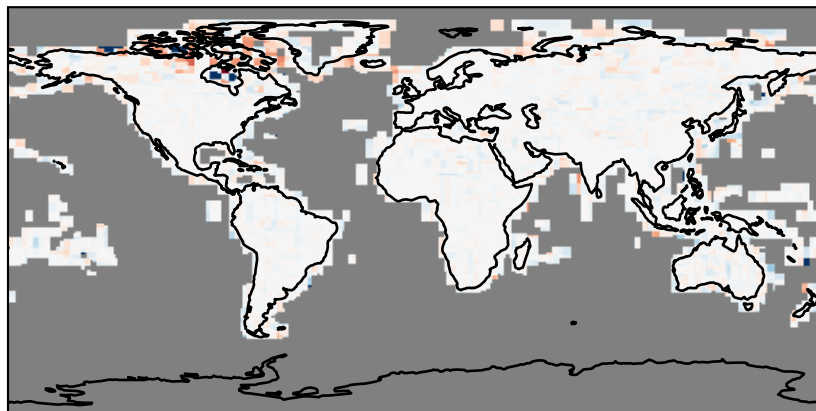
Difference (1x1.25)  
Dev - Ref, Dynamic Range



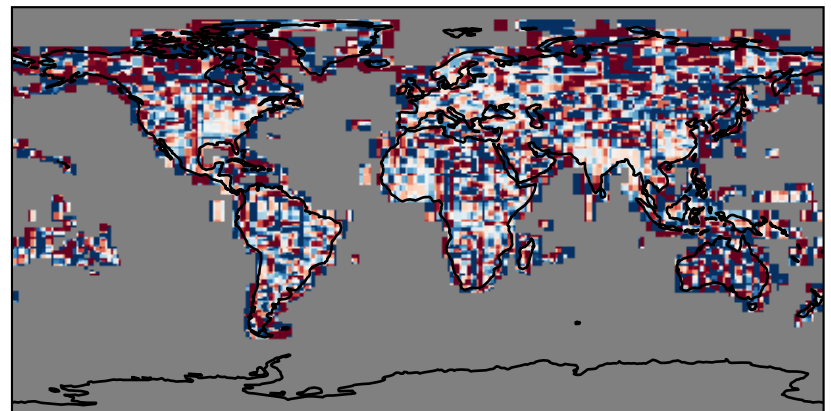
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ratio (1x1.25)  
Dev/Ref, Fixed Range



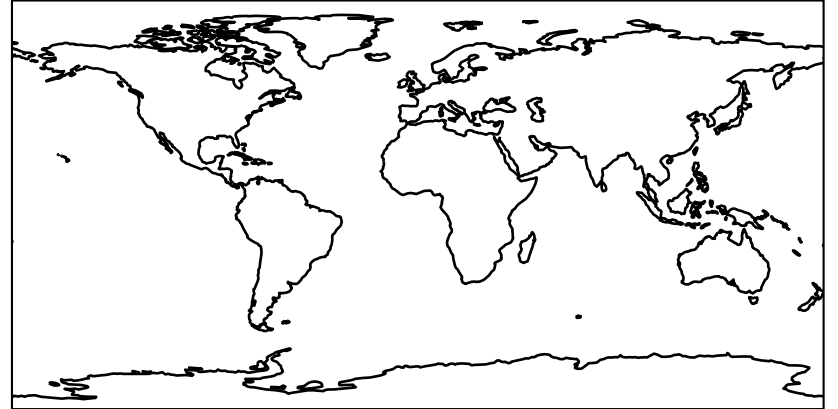
# EmisHCOOH\_Ship (Jan2019)

GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



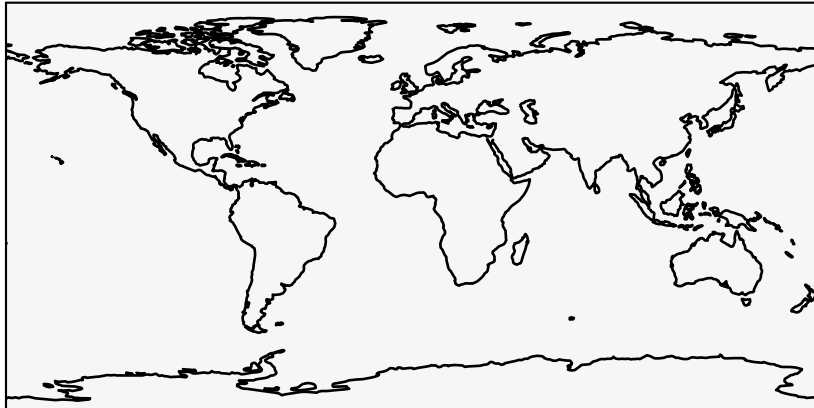
Zero throughout domain  
kg/m2/s

GCHP\_14.0.0-rc.3 (Dev)  
c24



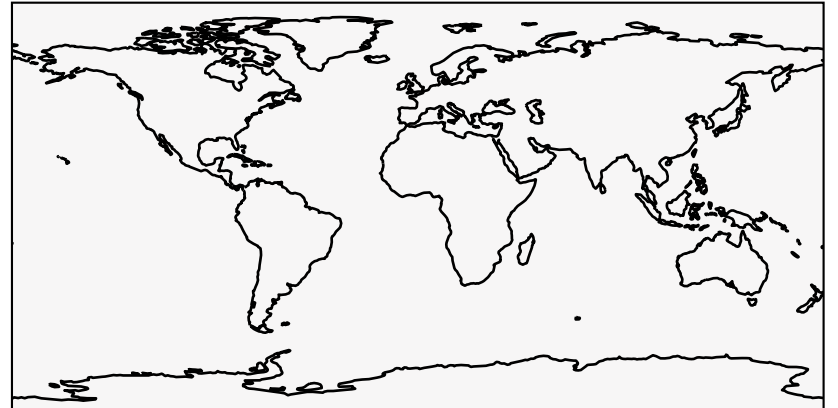
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Dynamic Range



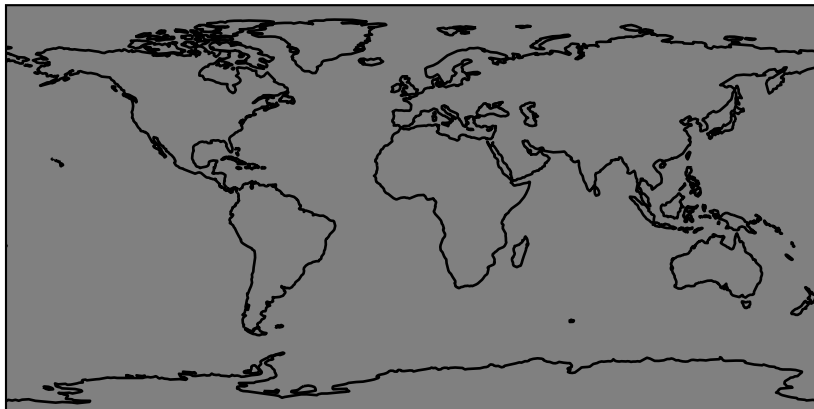
Zero throughout domain  
kg/m2/s

Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



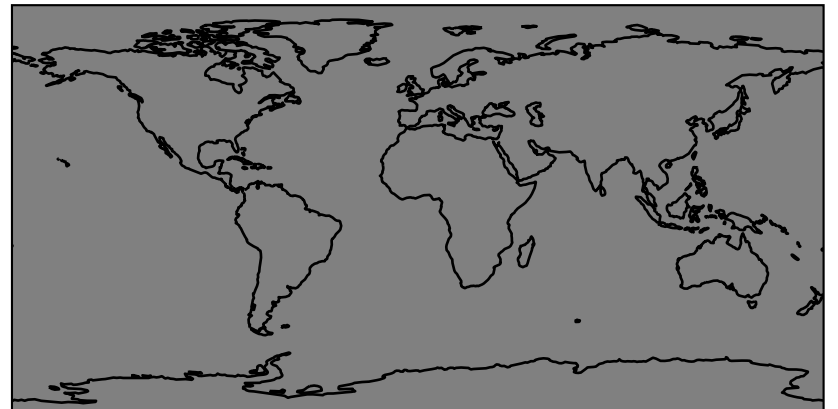
Zero throughout domain  
kg/m2/s

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Undefined throughout domain  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range

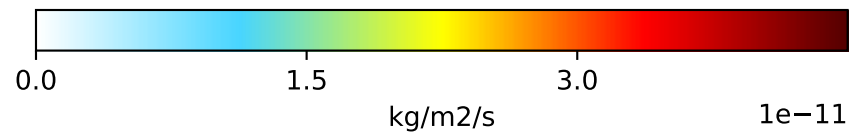
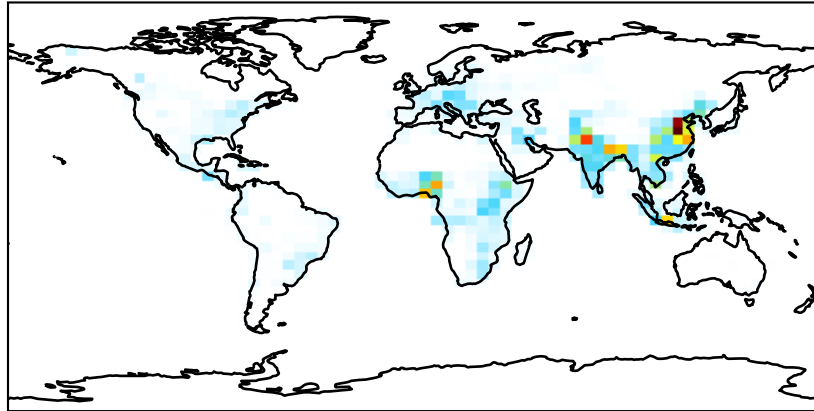


Undefined throughout domain  
unitless

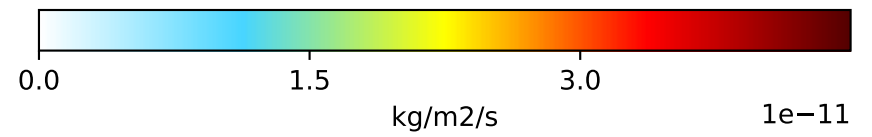
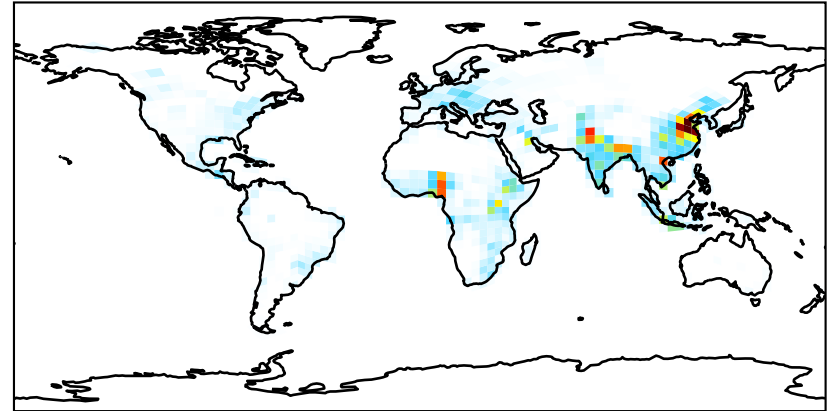


# EmisHCOOH\_Total (Jan2019)

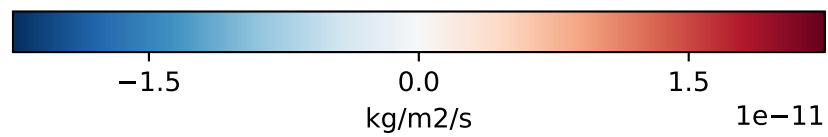
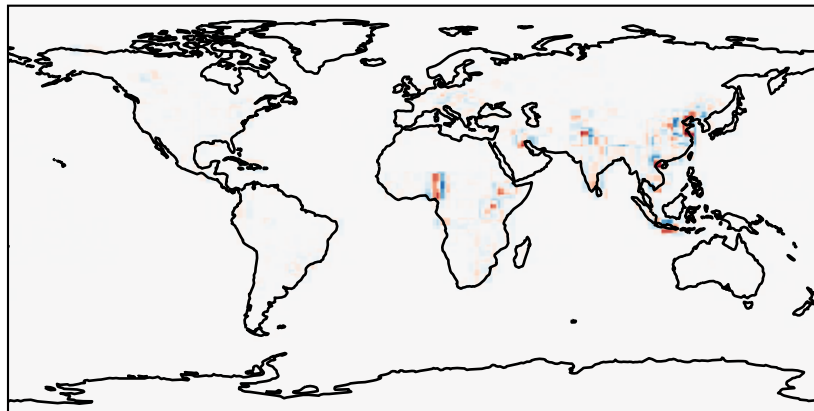
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



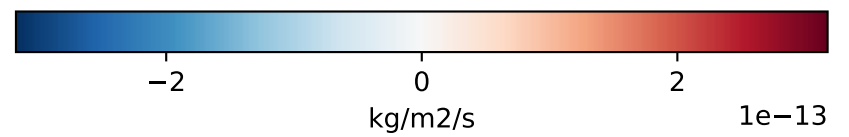
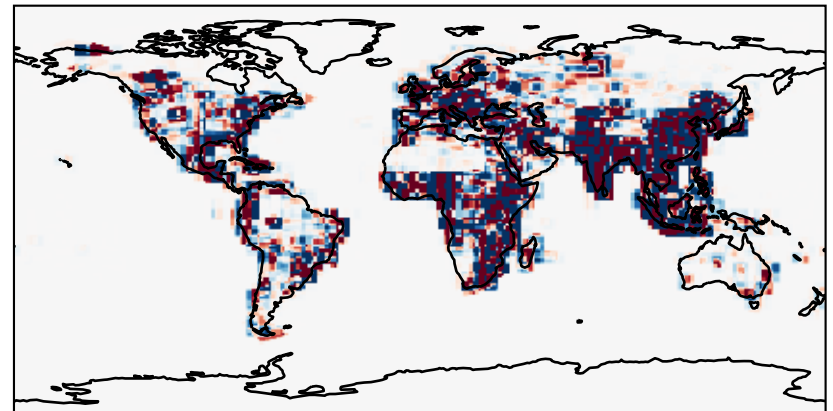
GCHP\_14.0.0-rc.3 (Dev)  
c24



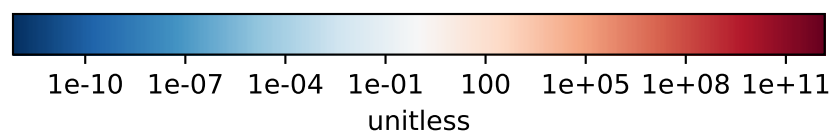
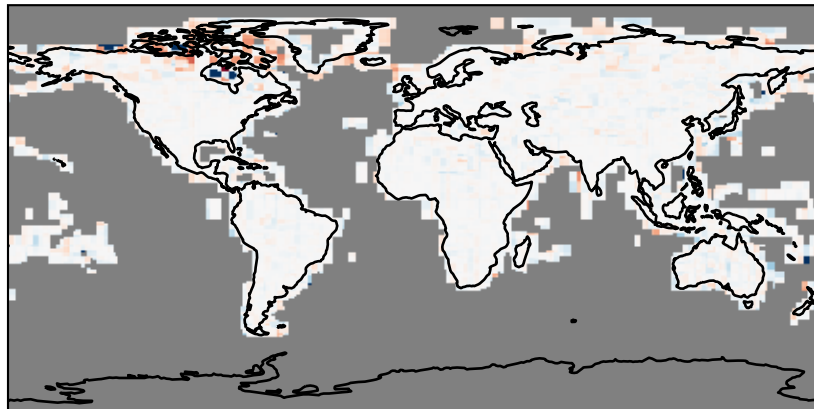
Difference (1x1.25)  
Dev - Ref, Dynamic Range



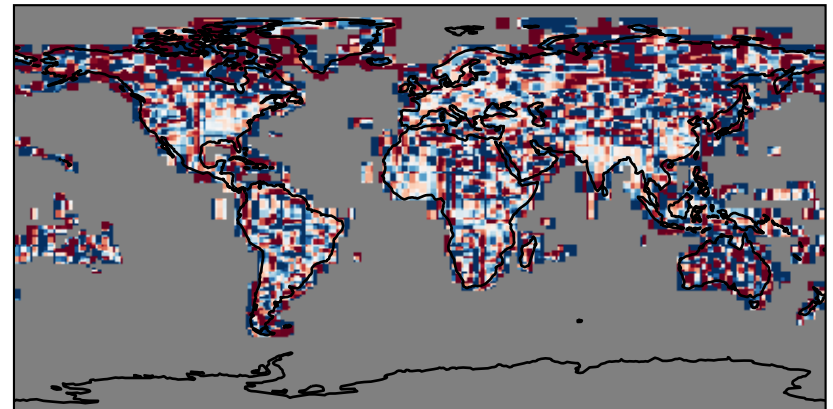
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

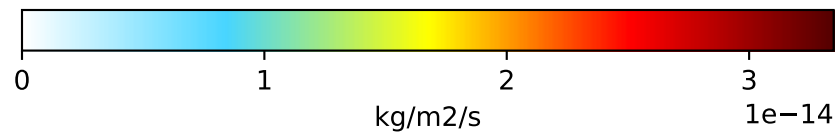
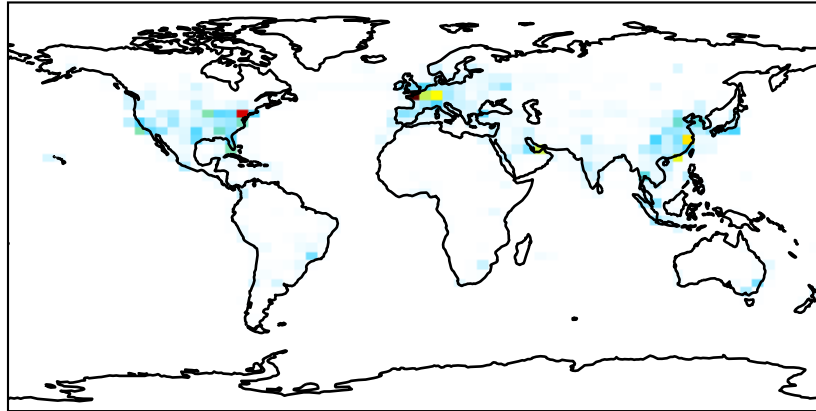


Ratio (1x1.25)  
Dev/Ref, Fixed Range

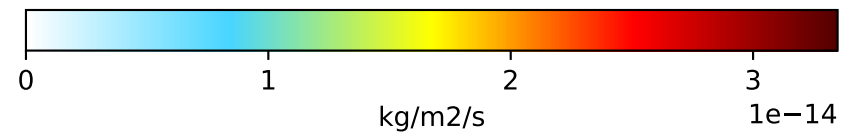
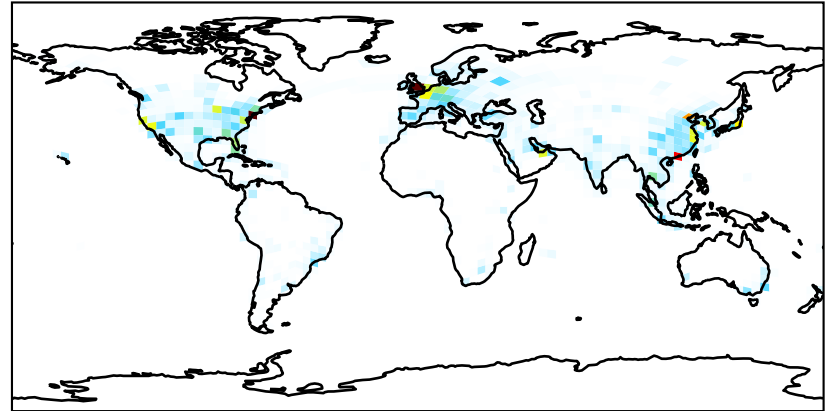


# EmisRCHO\_Aircraft (Jan2019)

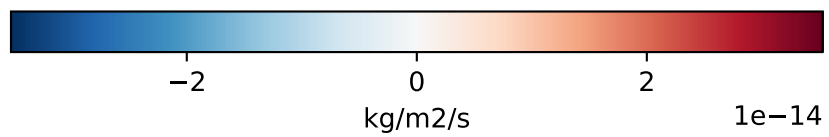
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



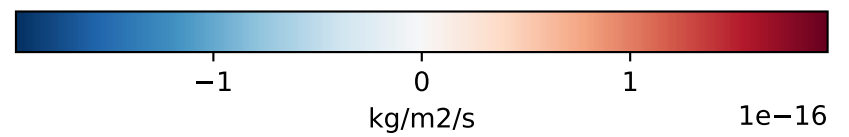
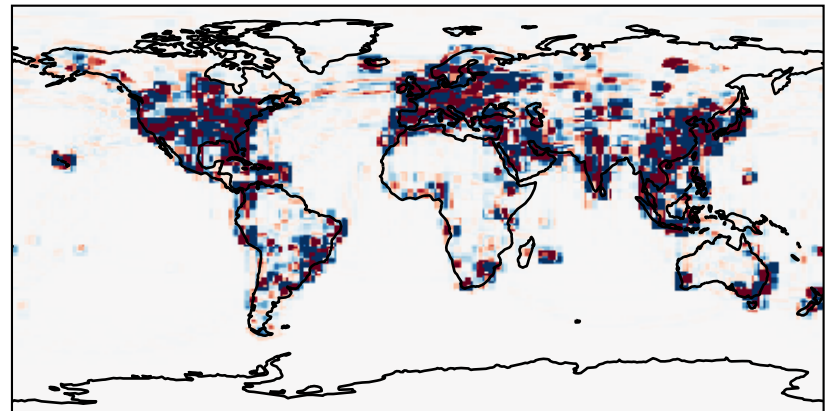
GCHP\_14.0.0-rc.3 (Dev)  
c24



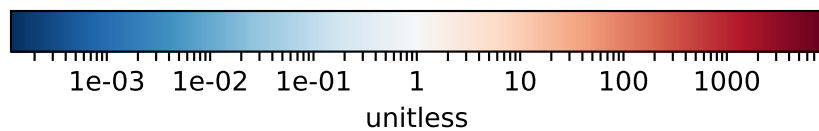
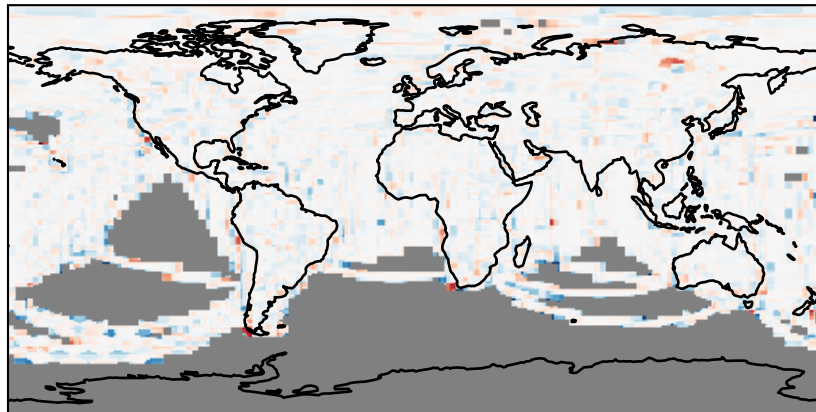
Difference (1x1.25)  
Dev - Ref, Dynamic Range



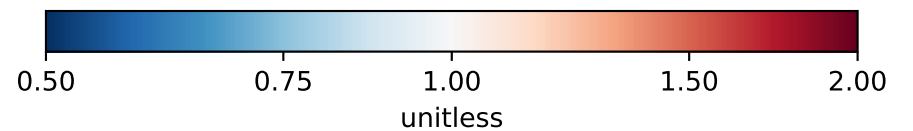
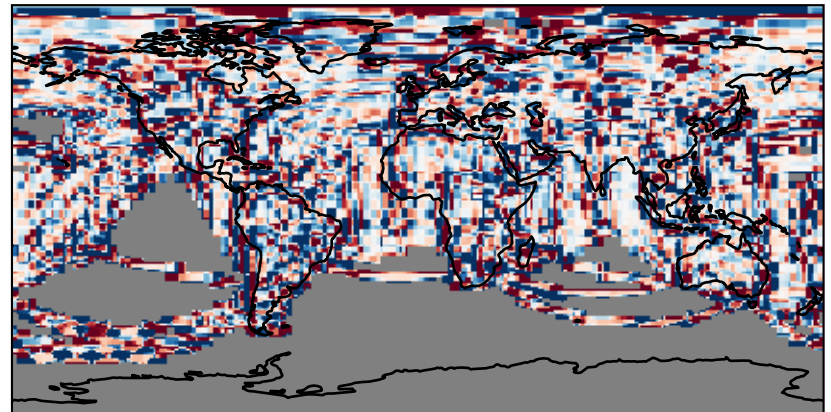
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

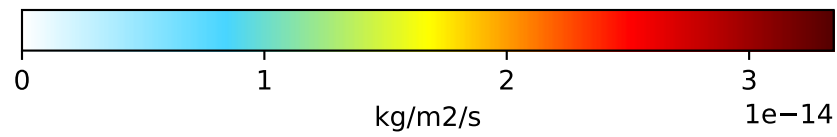
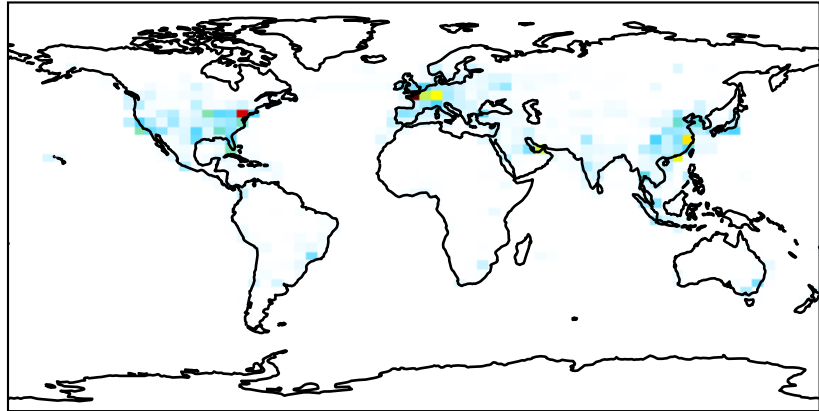


Ratio (1x1.25)  
Dev/Ref, Fixed Range

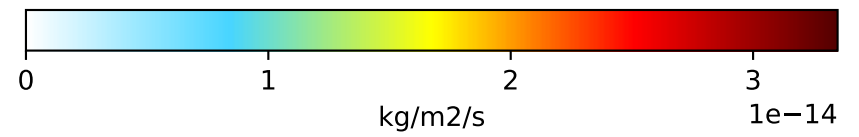
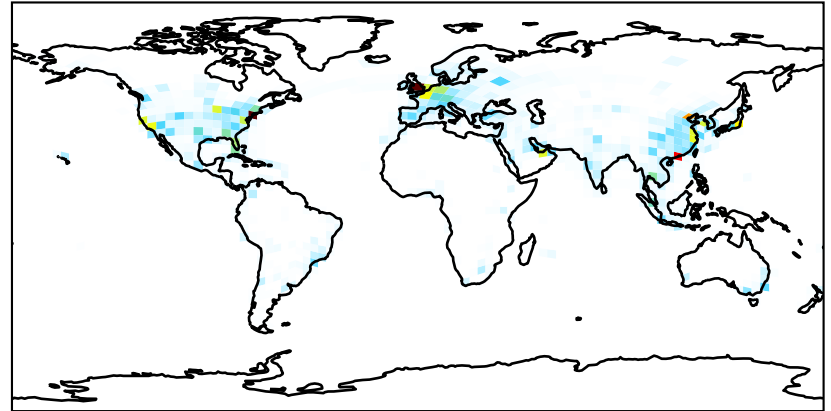


# EmisRCHO\_Total (Jan2019)

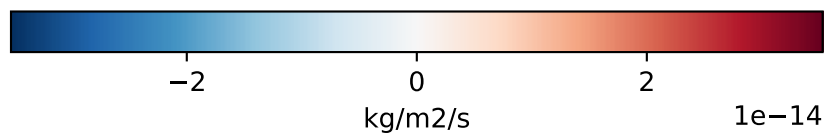
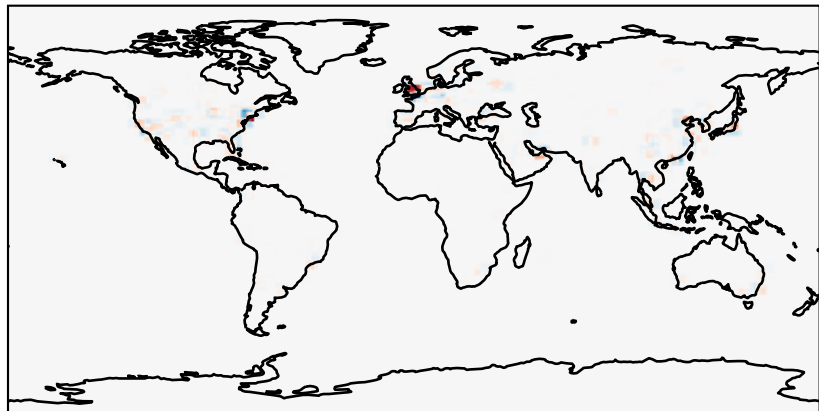
GCC\_14.0.0-rc.3 (Ref)  
4.0x5.0



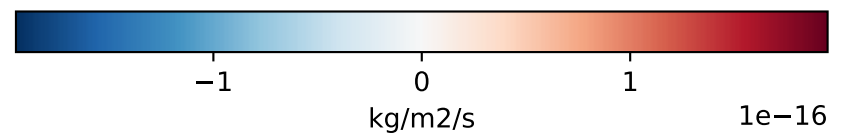
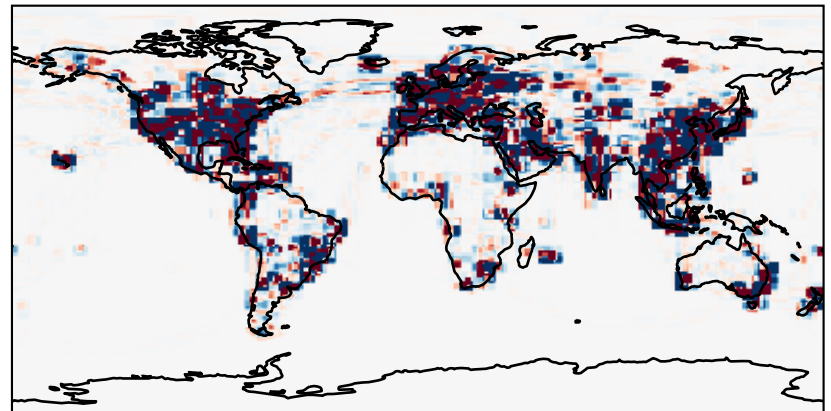
GCHP\_14.0.0-rc.3 (Dev)  
c24



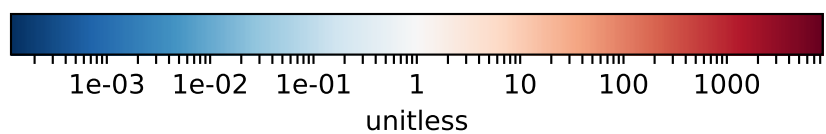
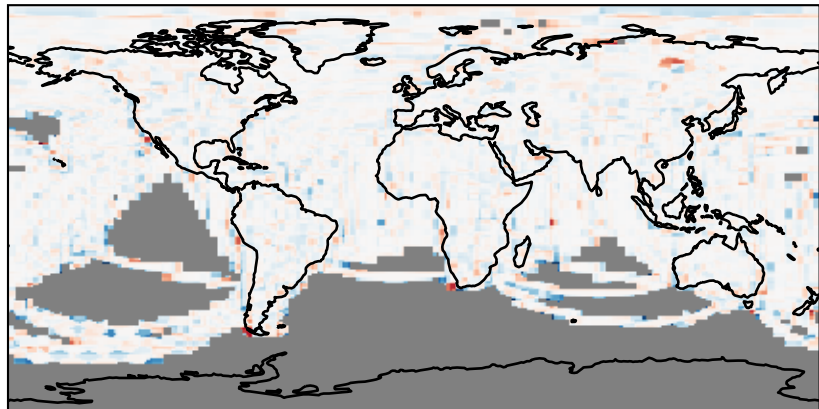
Difference (1x1.25)  
Dev - Ref, Dynamic Range



Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ratio (1x1.25)  
Dev/Ref, Fixed Range

